

Figure 1A

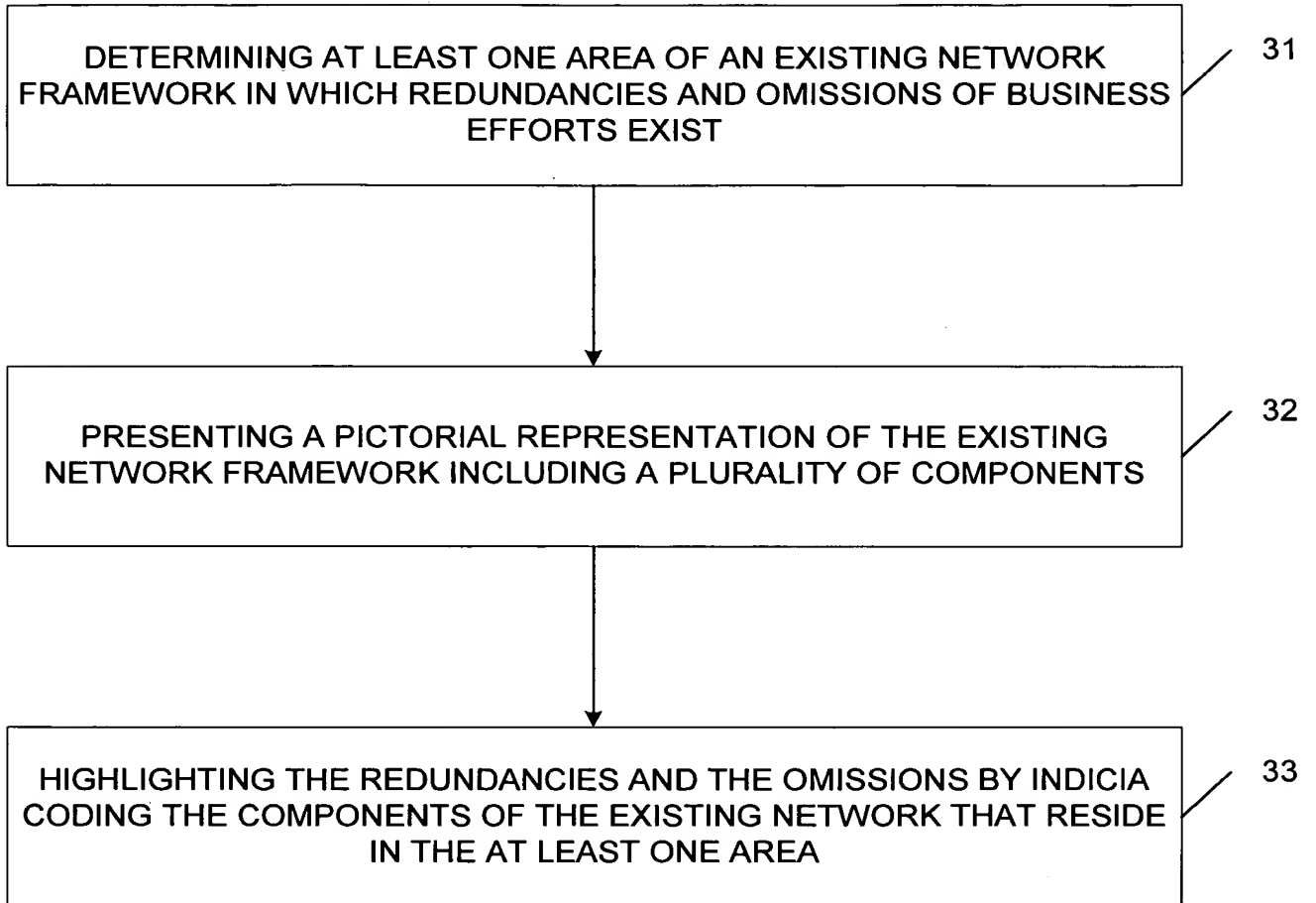


Figure 1B

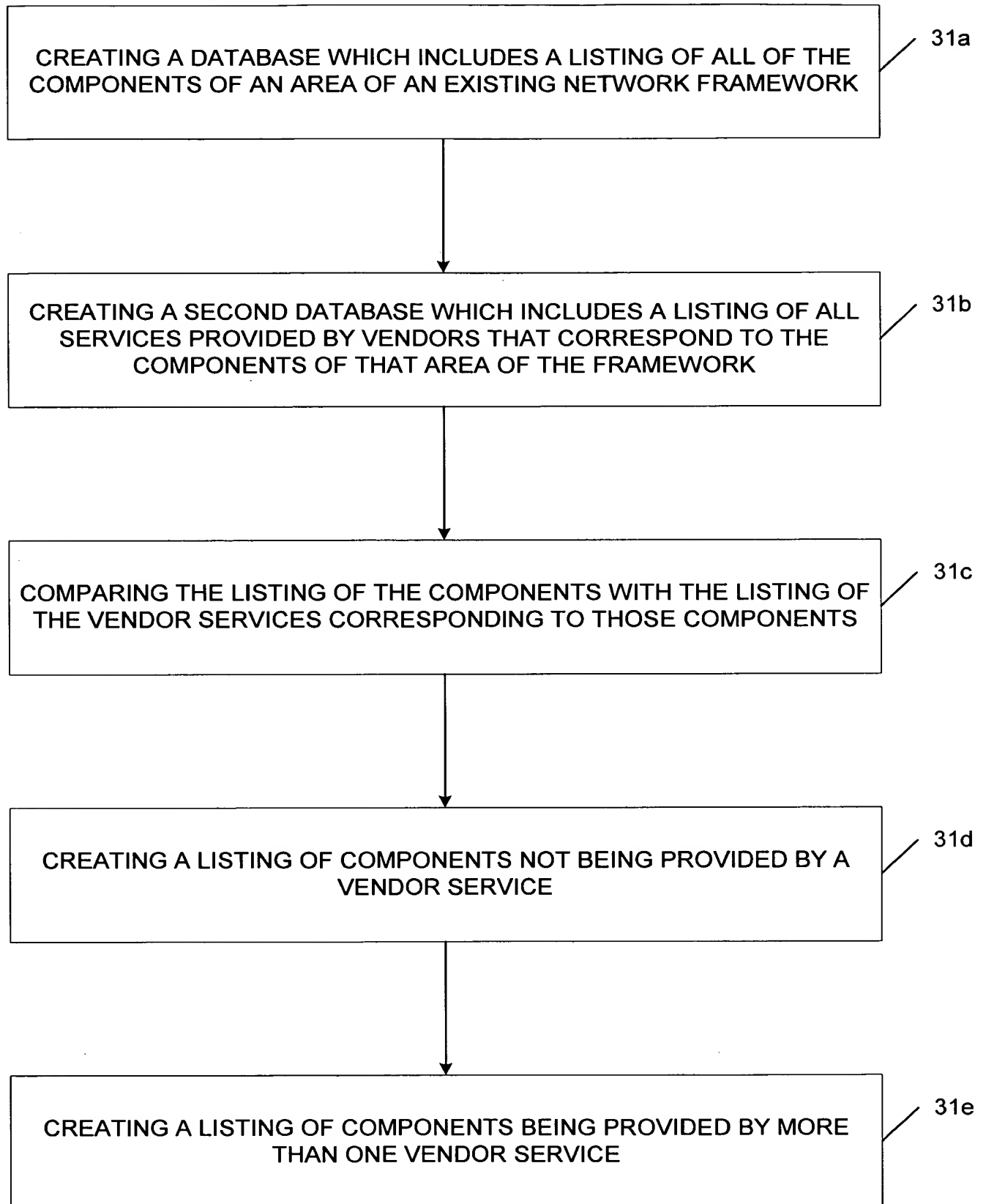


Figure 1B-1

DISPLAYING A PICTORIAL REPRESENTATION OF A SYSTEM INCLUDING  
A PLURALITY OF COMPONENTS

34



INDICIA CODING THE COMPONENTS OF THE SYSTEM IN ORDER TO  
INDICATE REQUIRED COMPONENTS FOR THE IMPLEMENTATION OF  
THE SYSTEM

35

**Figure 1C**

14

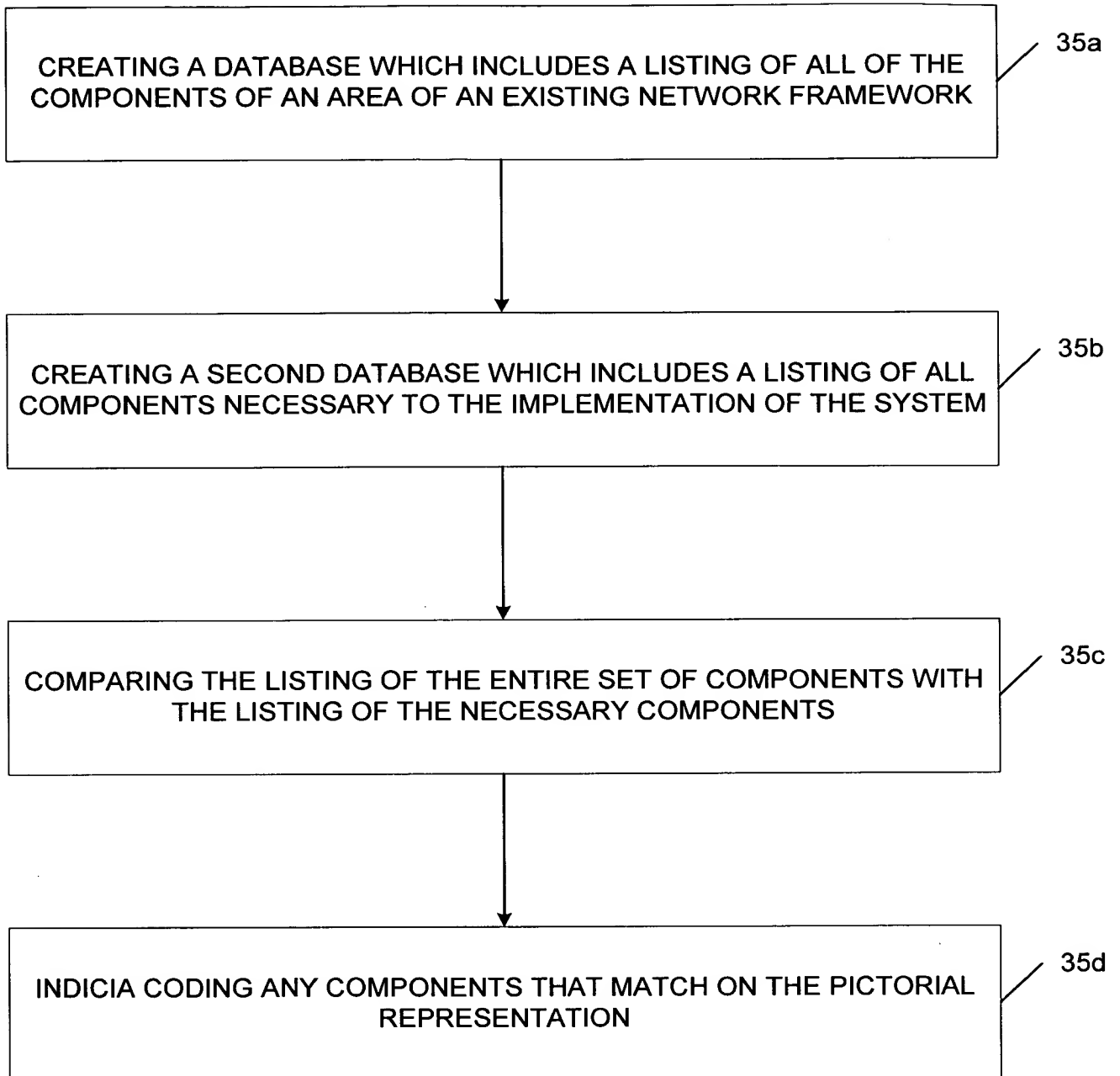
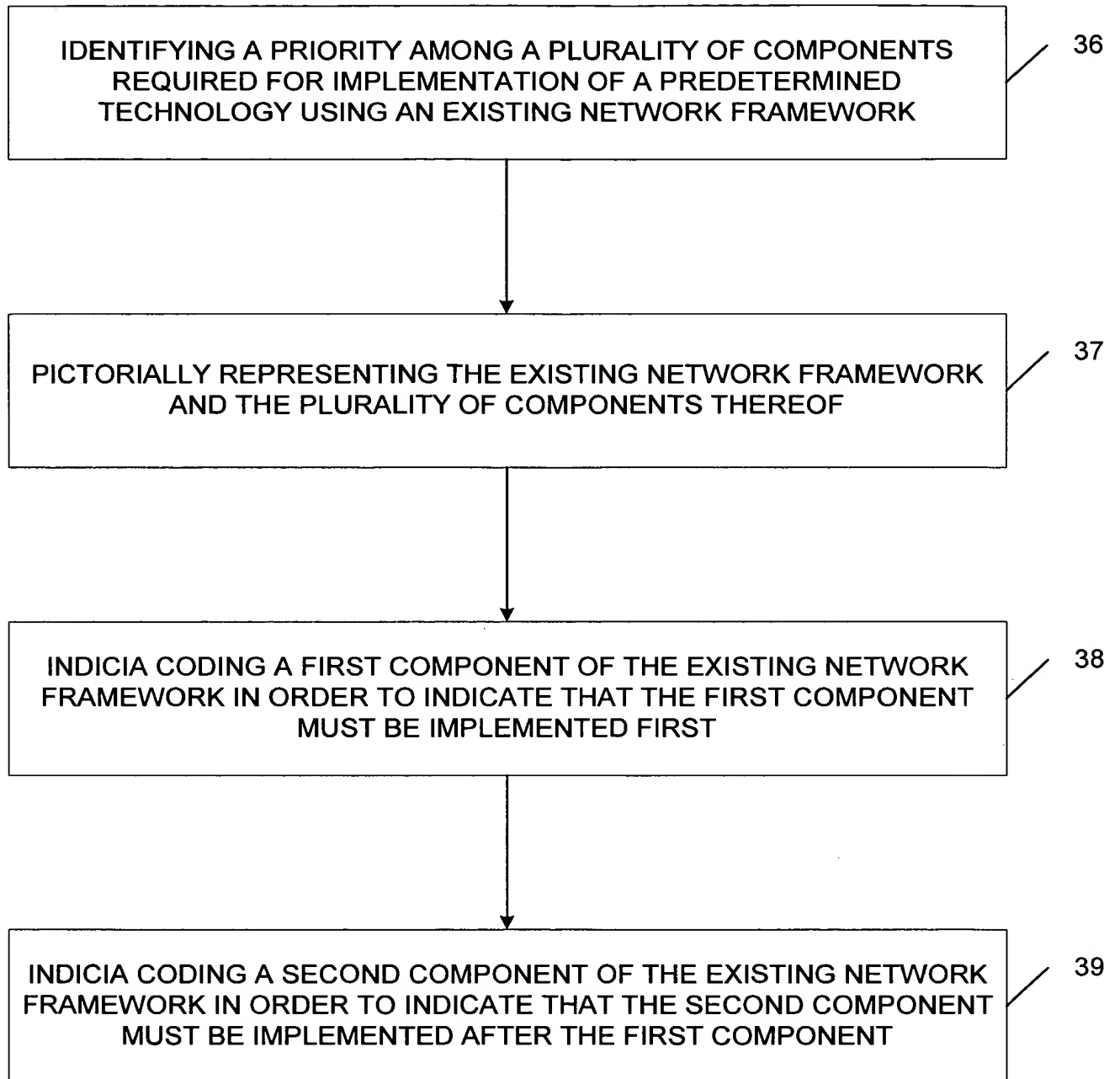


Figure 1C-1



16

Figure 1D

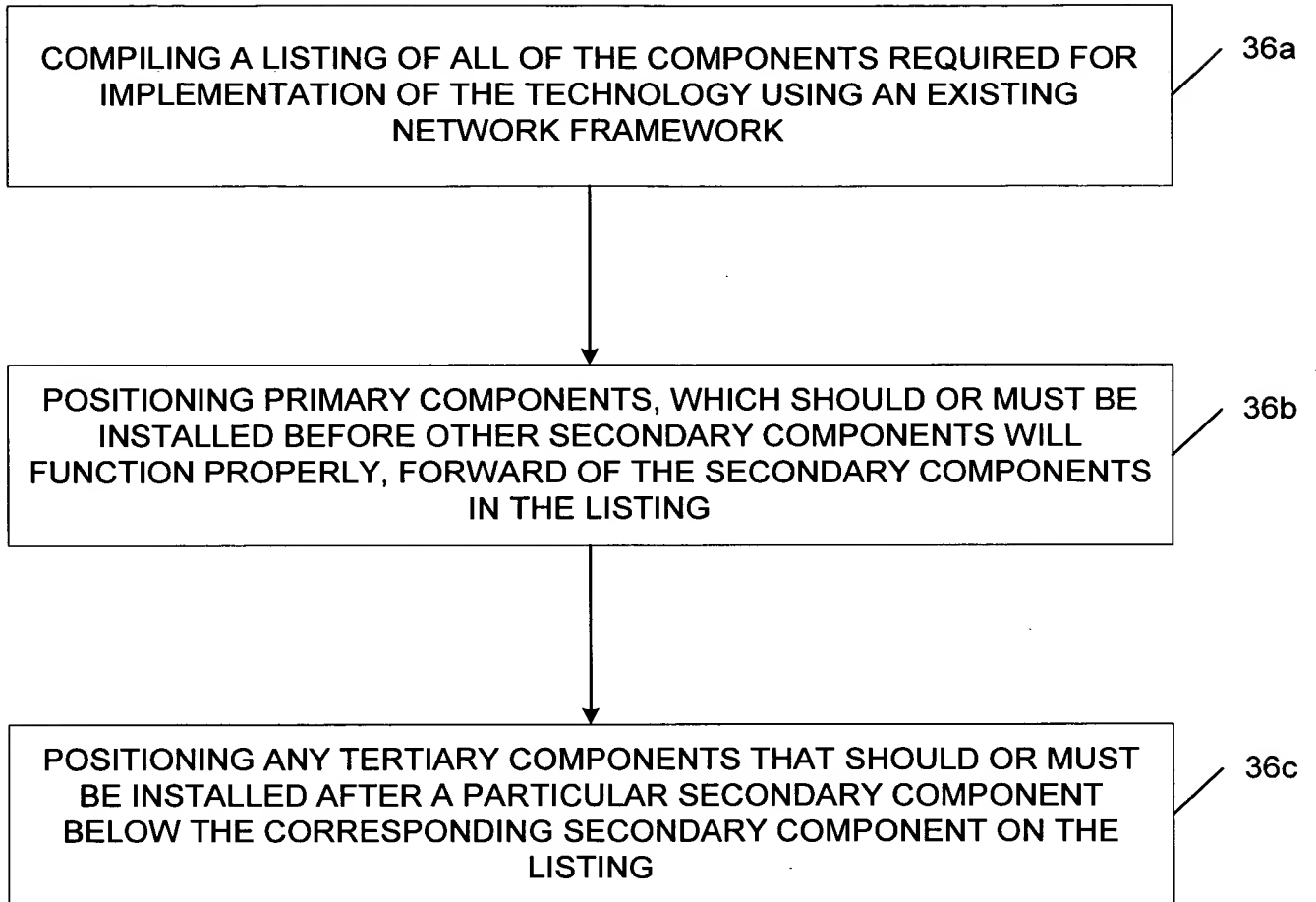


Figure 1D-1

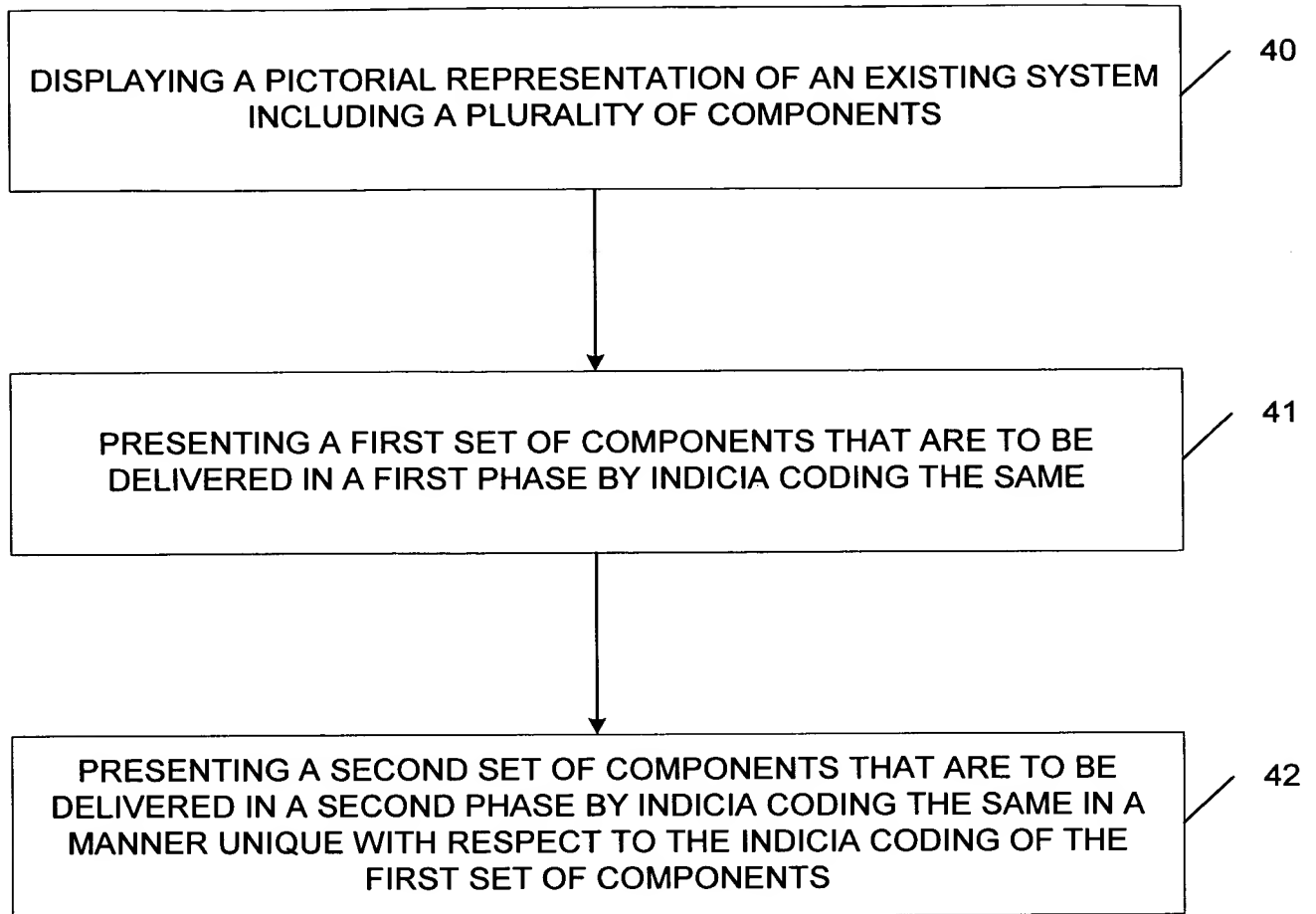


Figure 1E

18



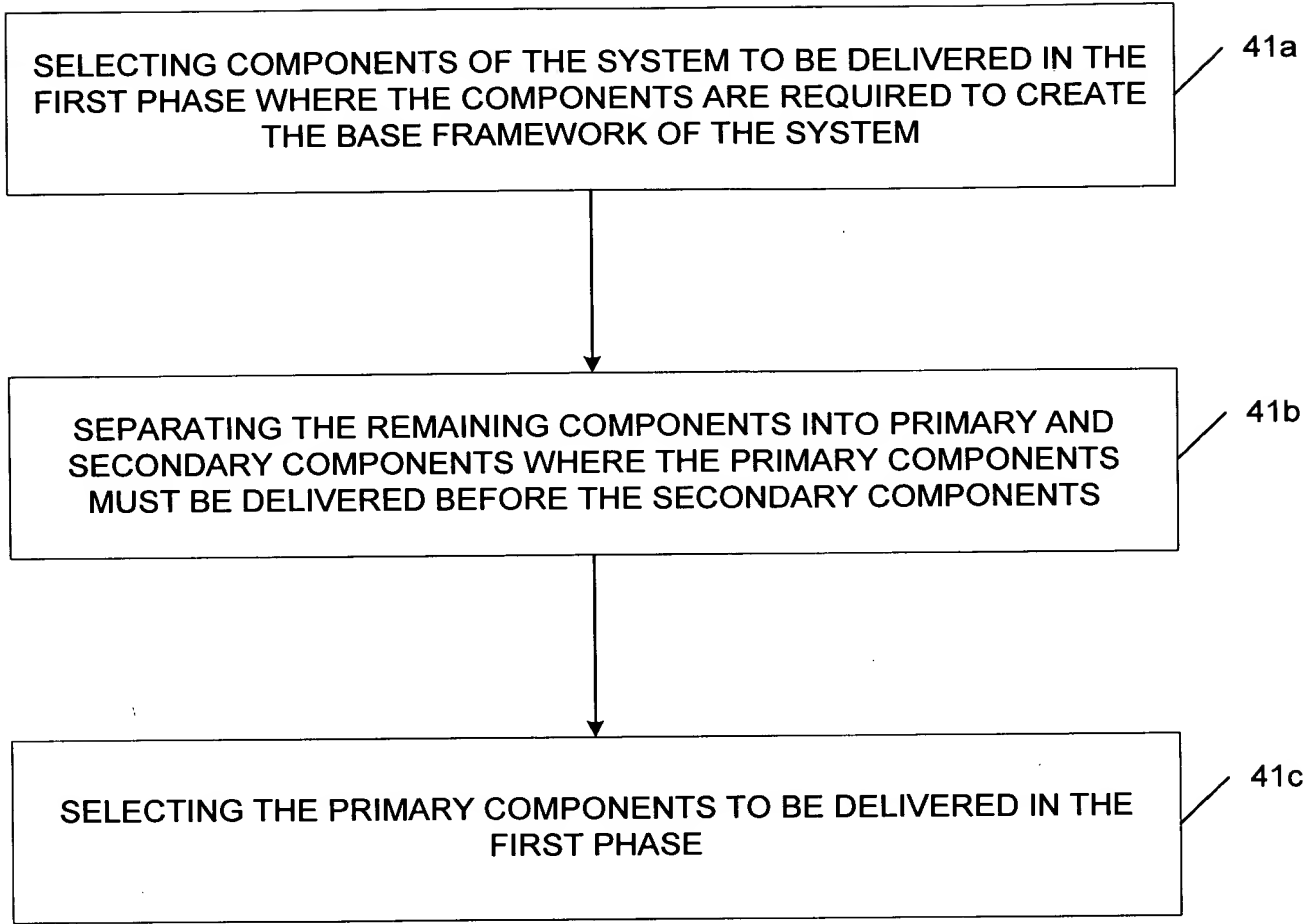


Figure 1E-1

41

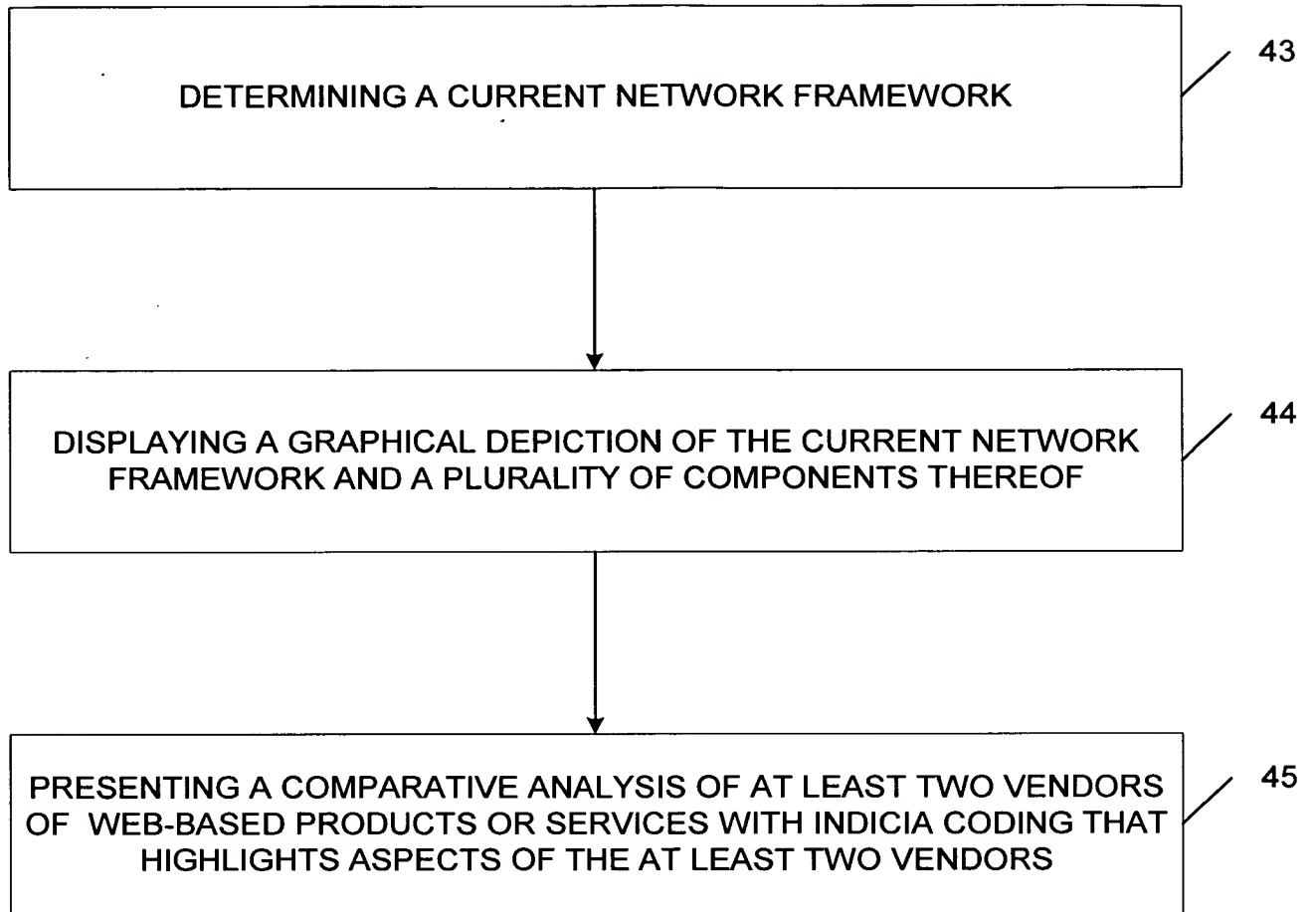


Figure 1F

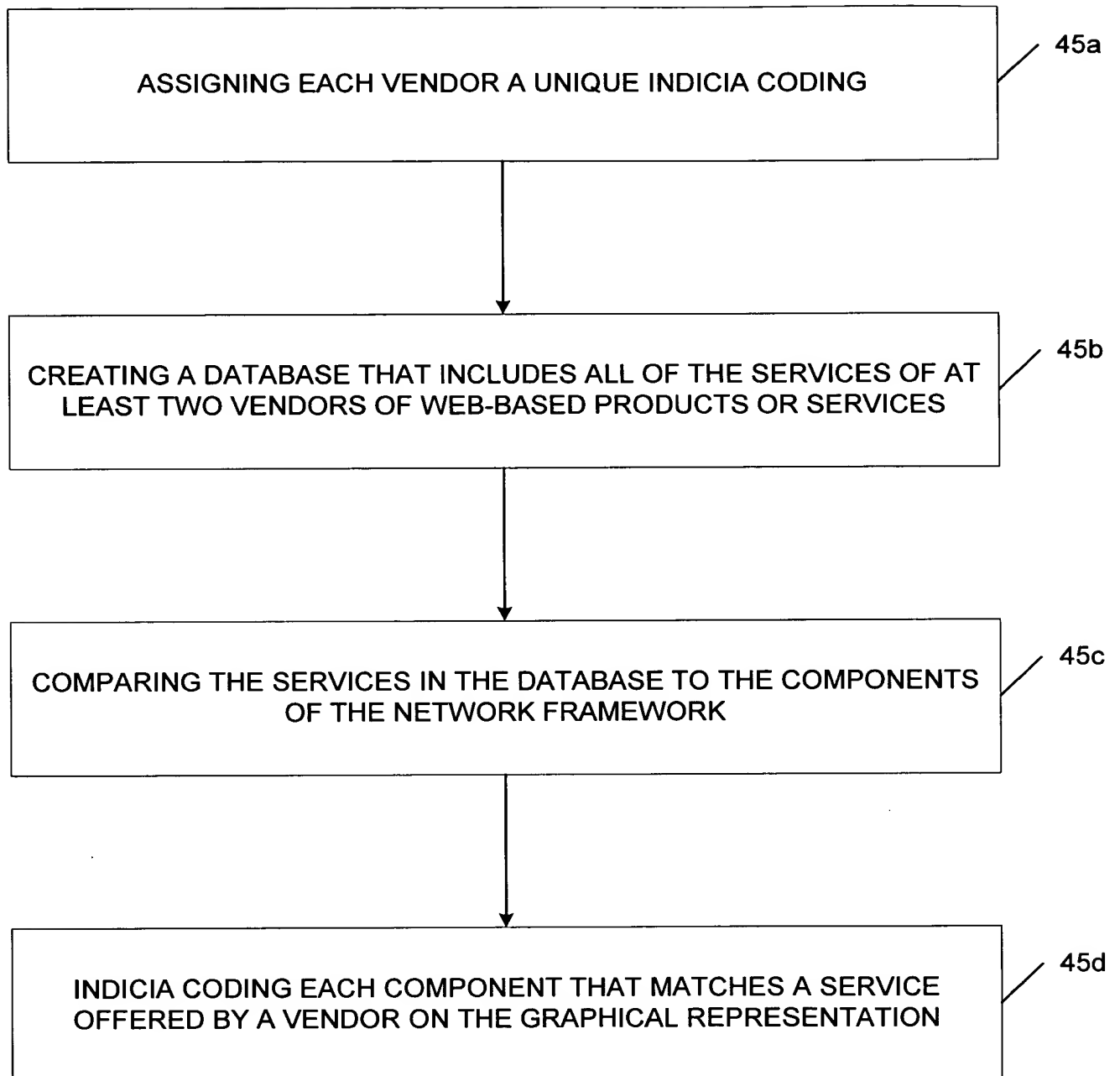
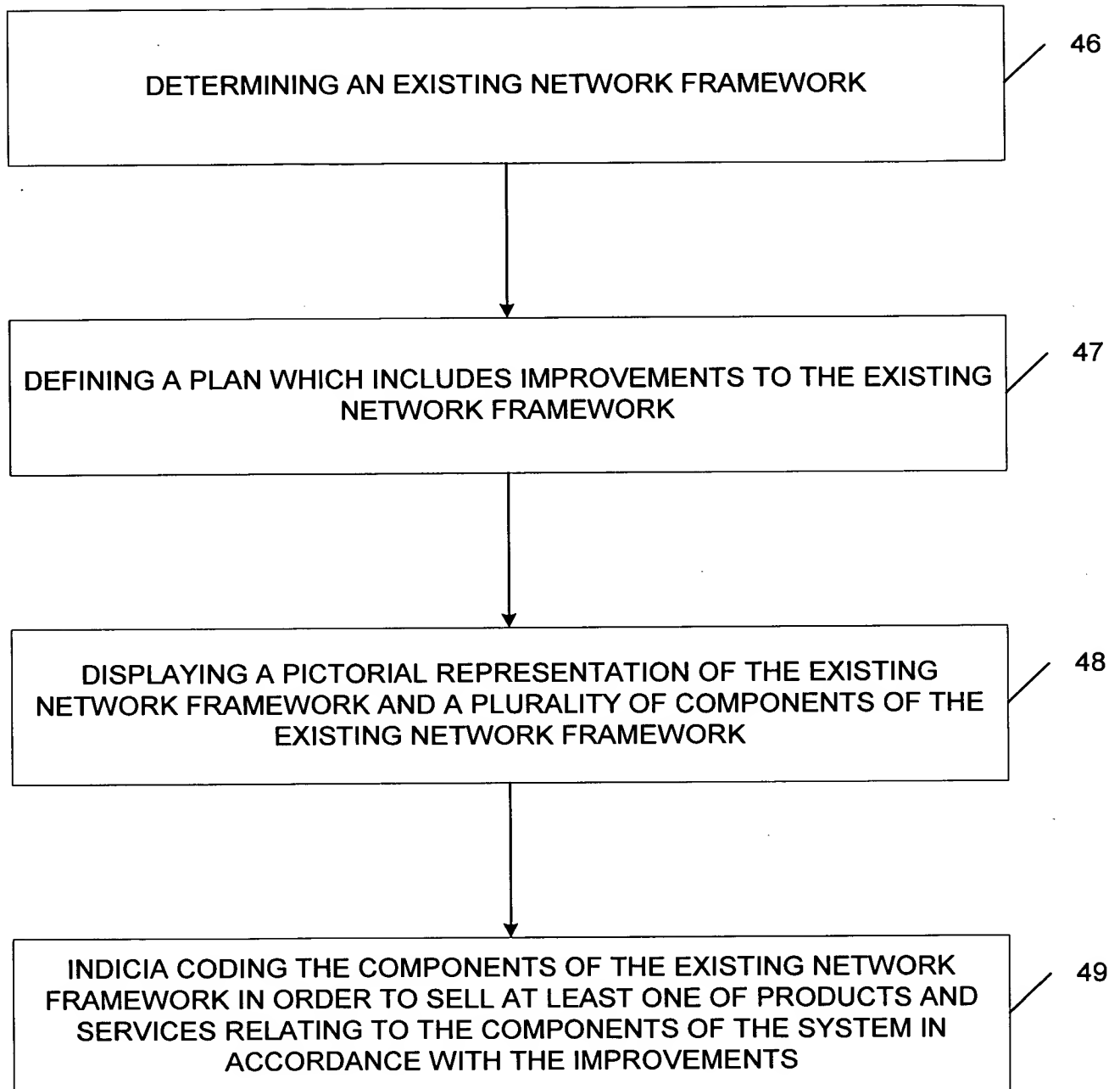


Figure 1F-1



22

Figure 1G

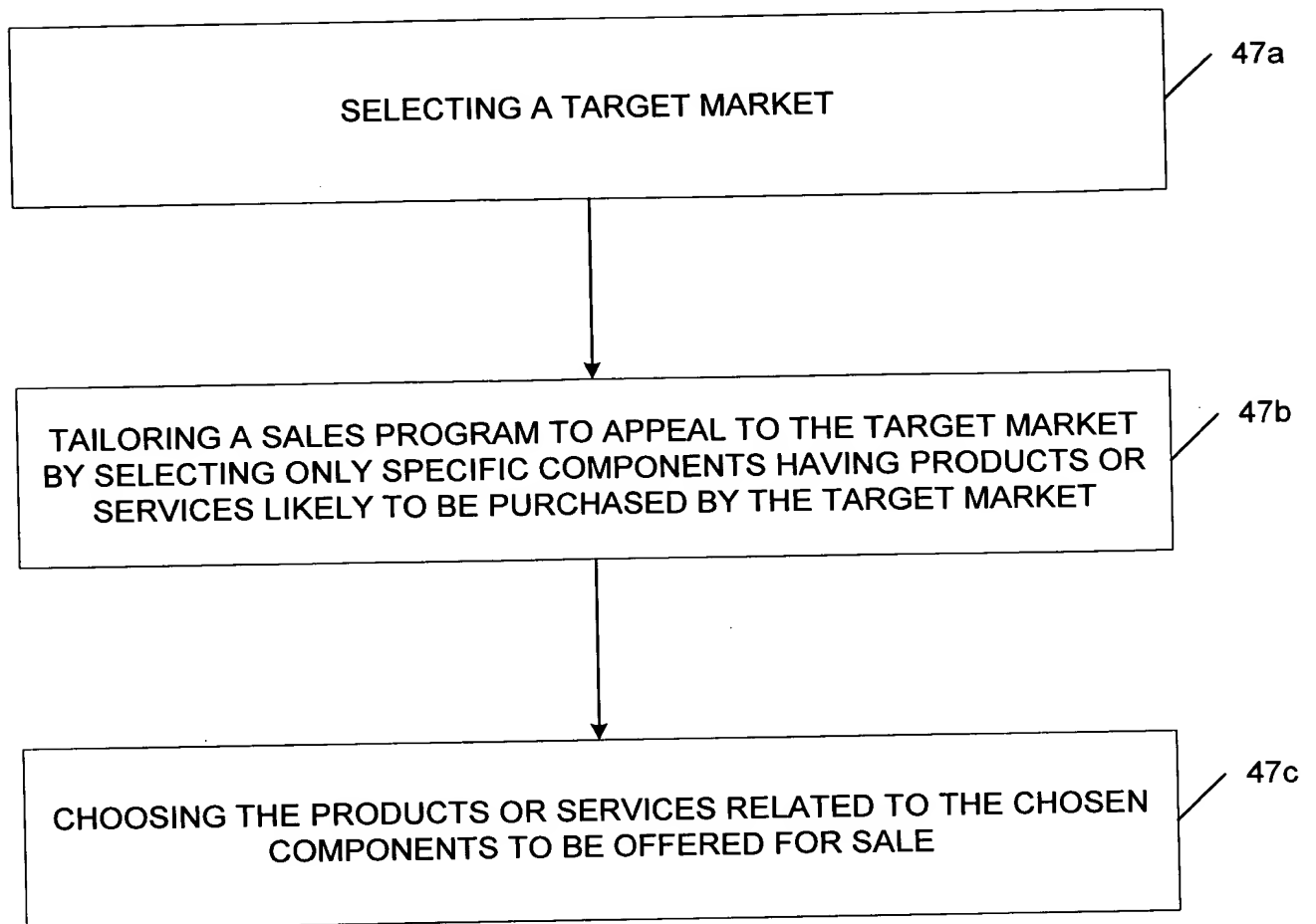
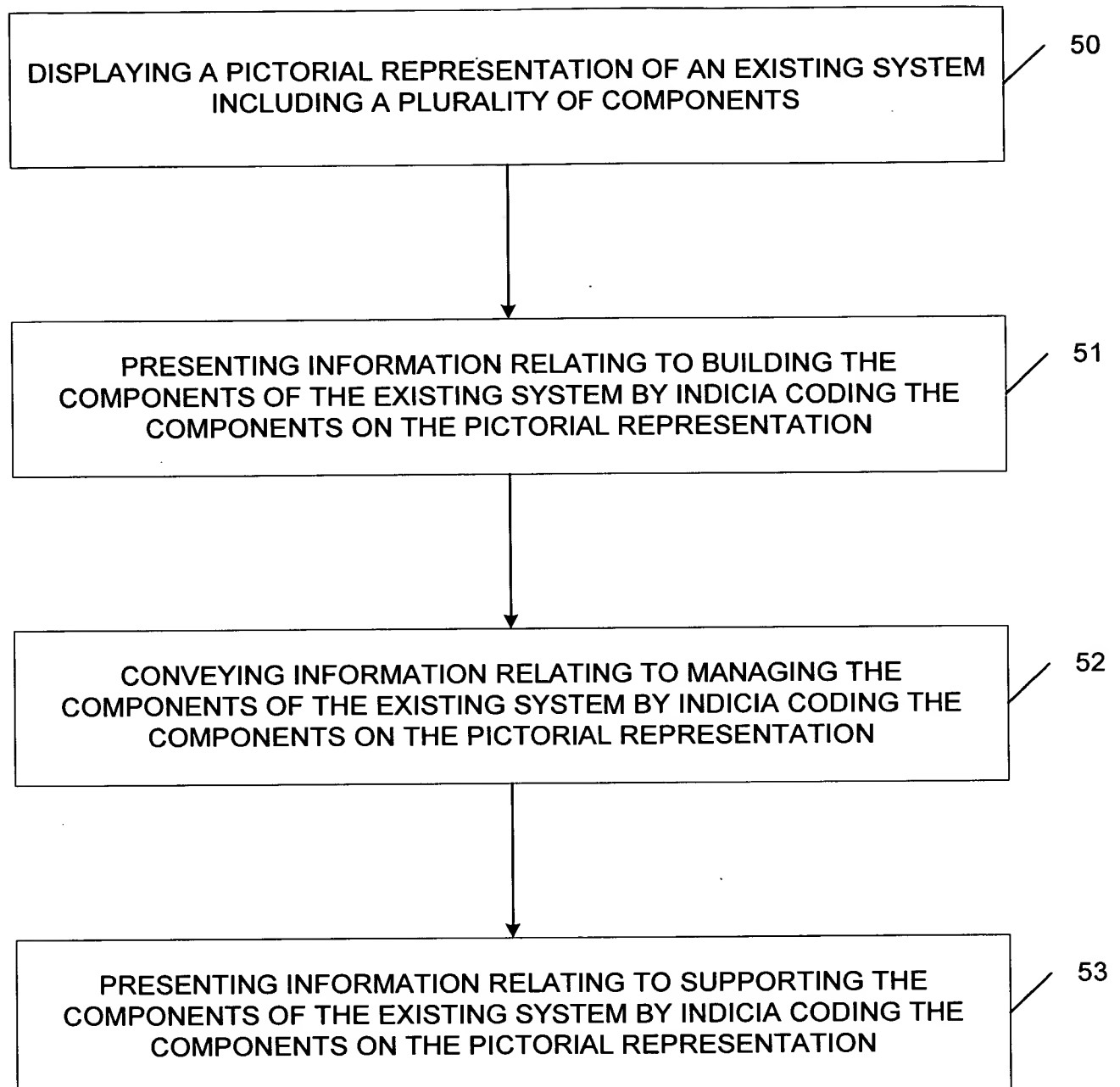


Figure 1G-1



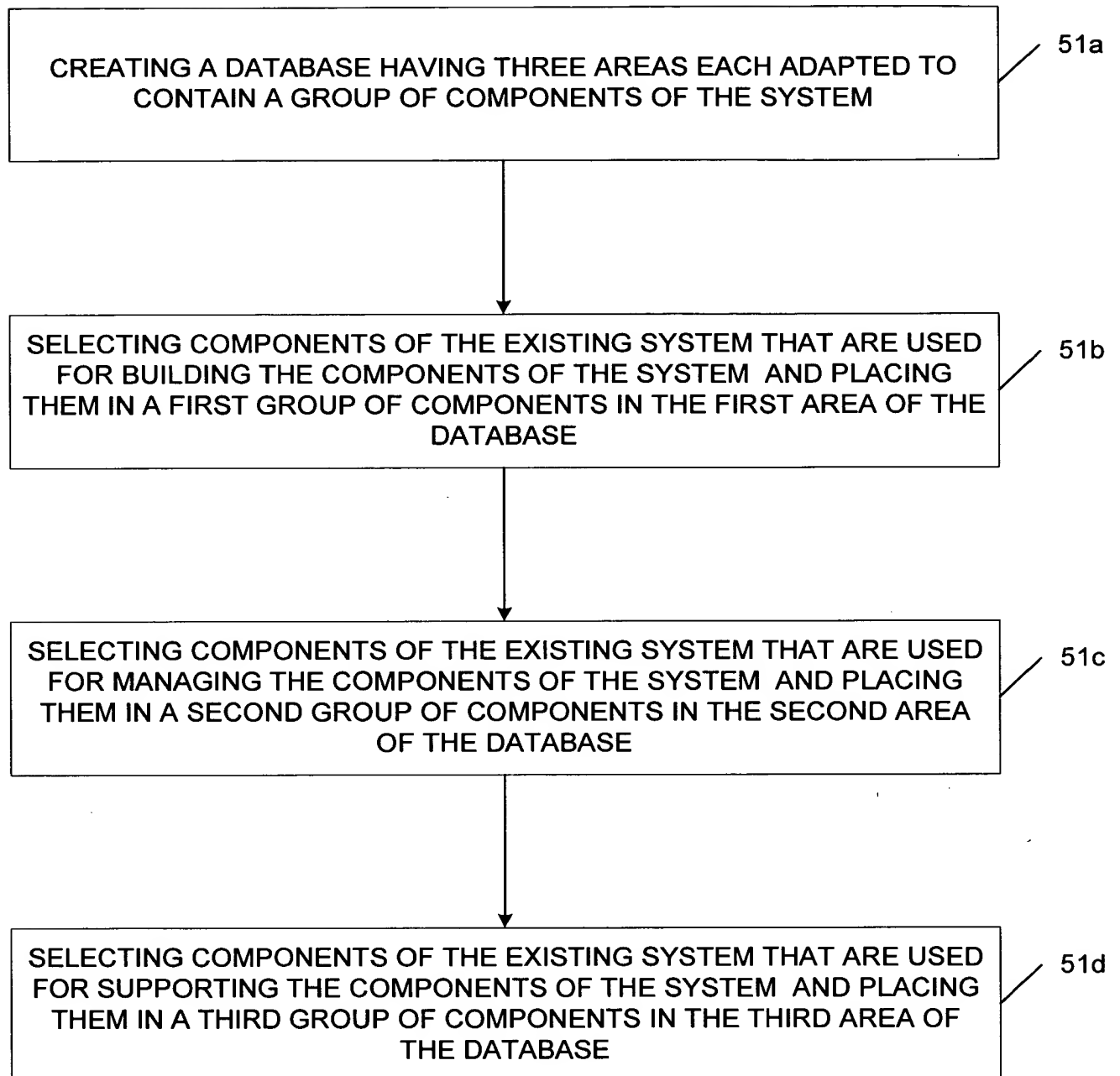


Figure 1H-1

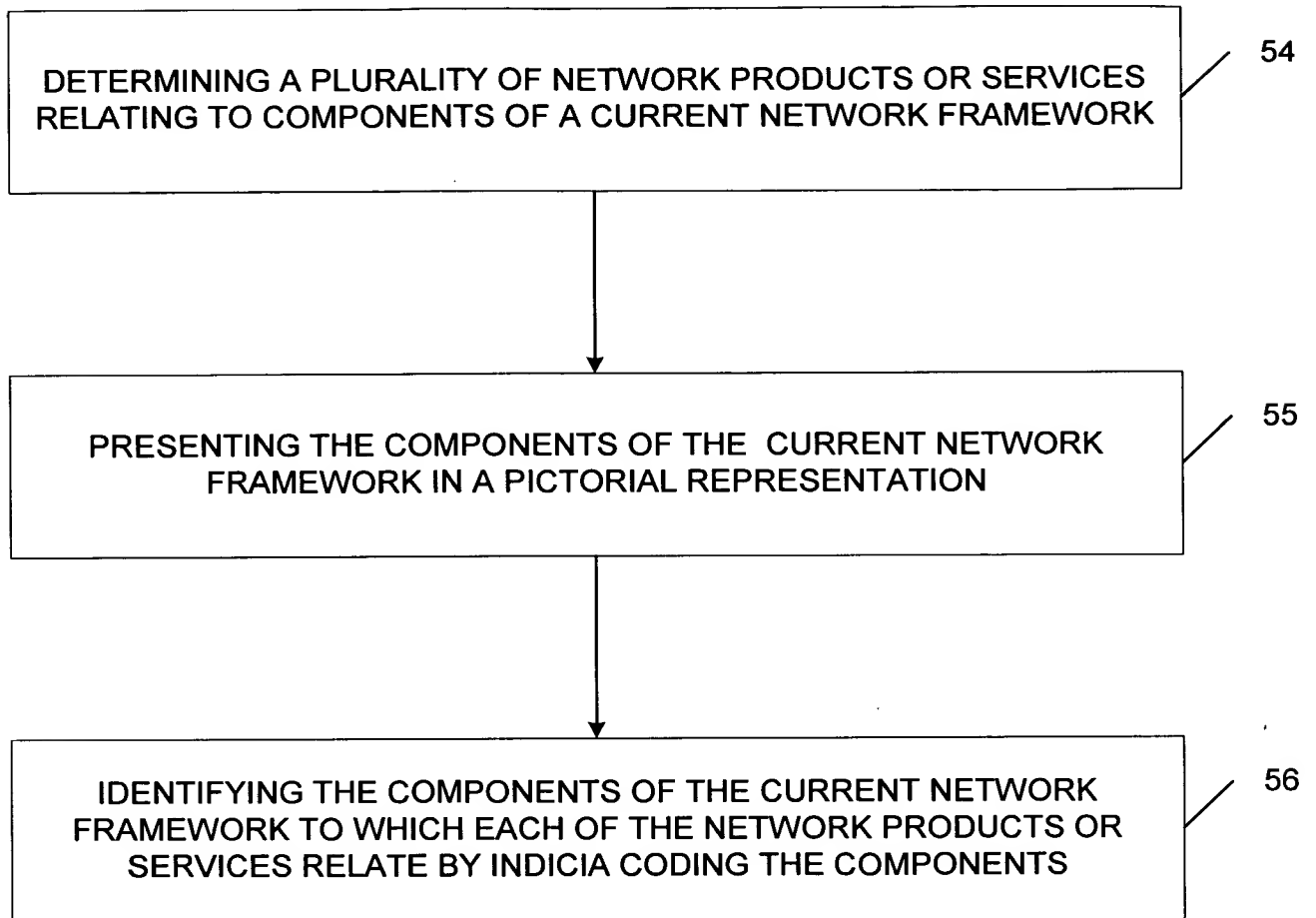


Figure 11



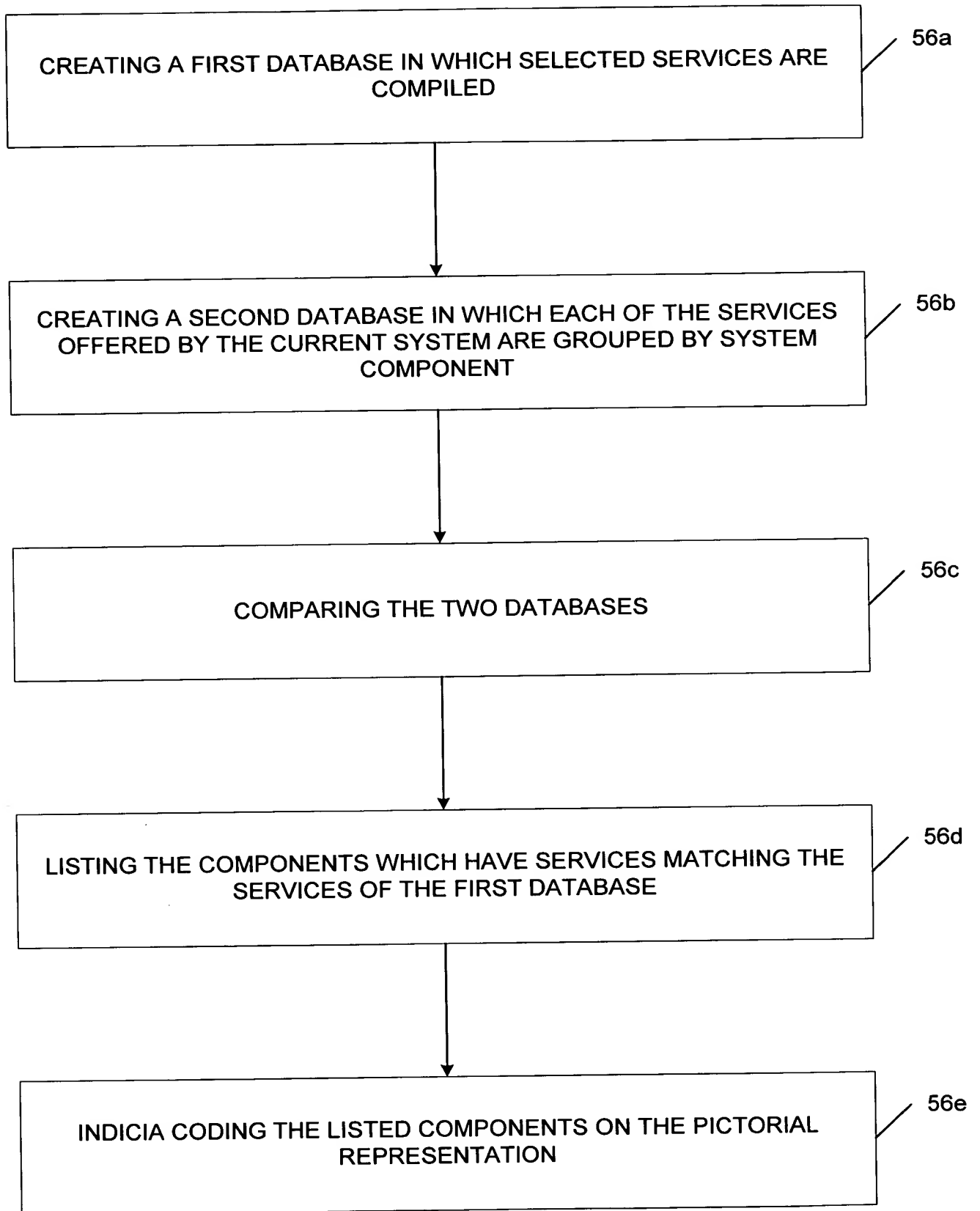


Figure 11-1

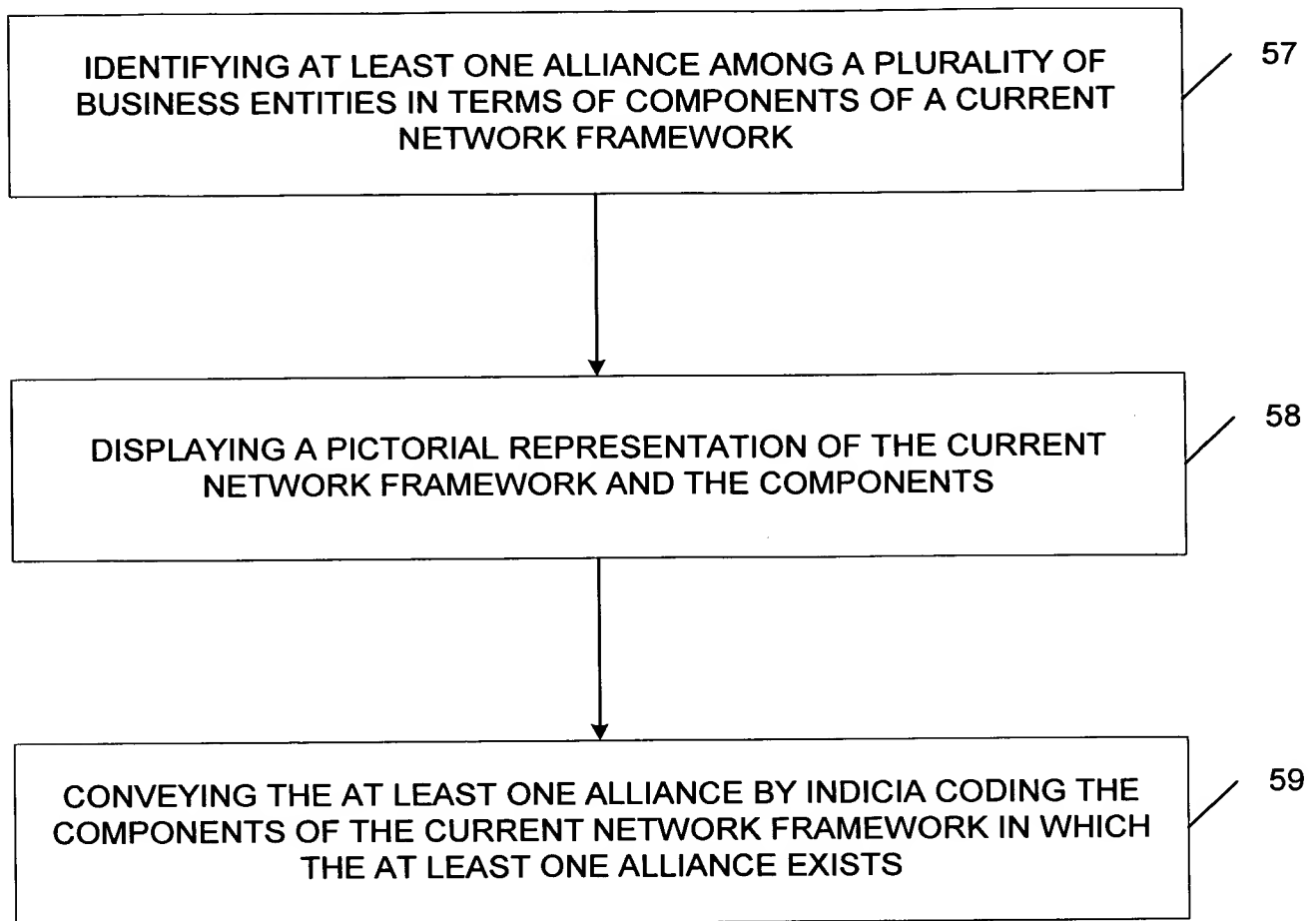


Figure 1J

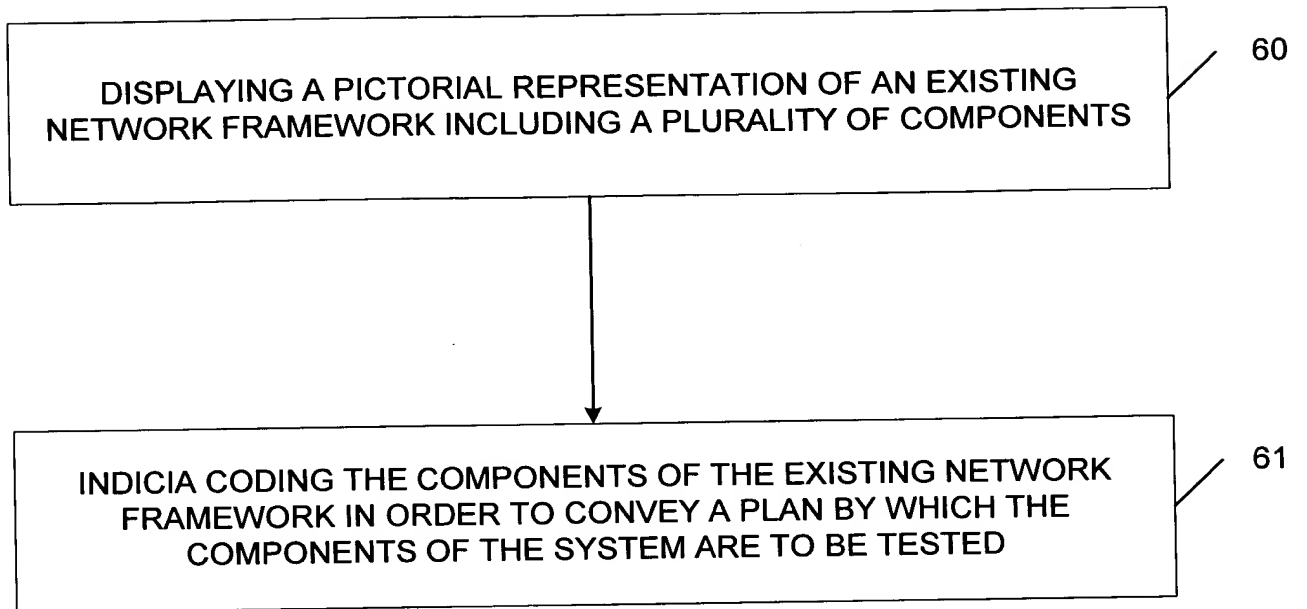


Figure 1K

30

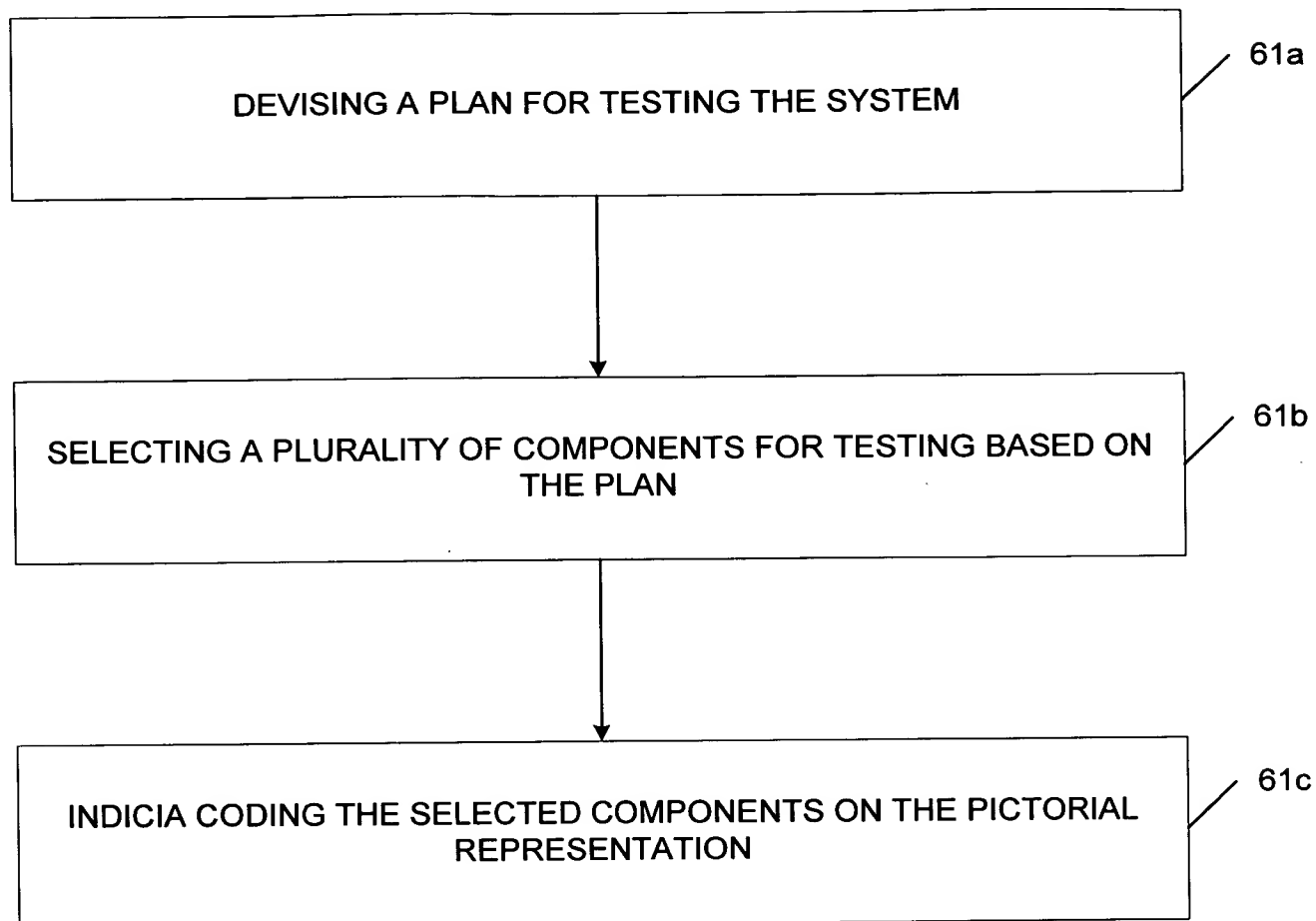


Figure 1K-1

61

# Web Architecture Framework – Base Chart

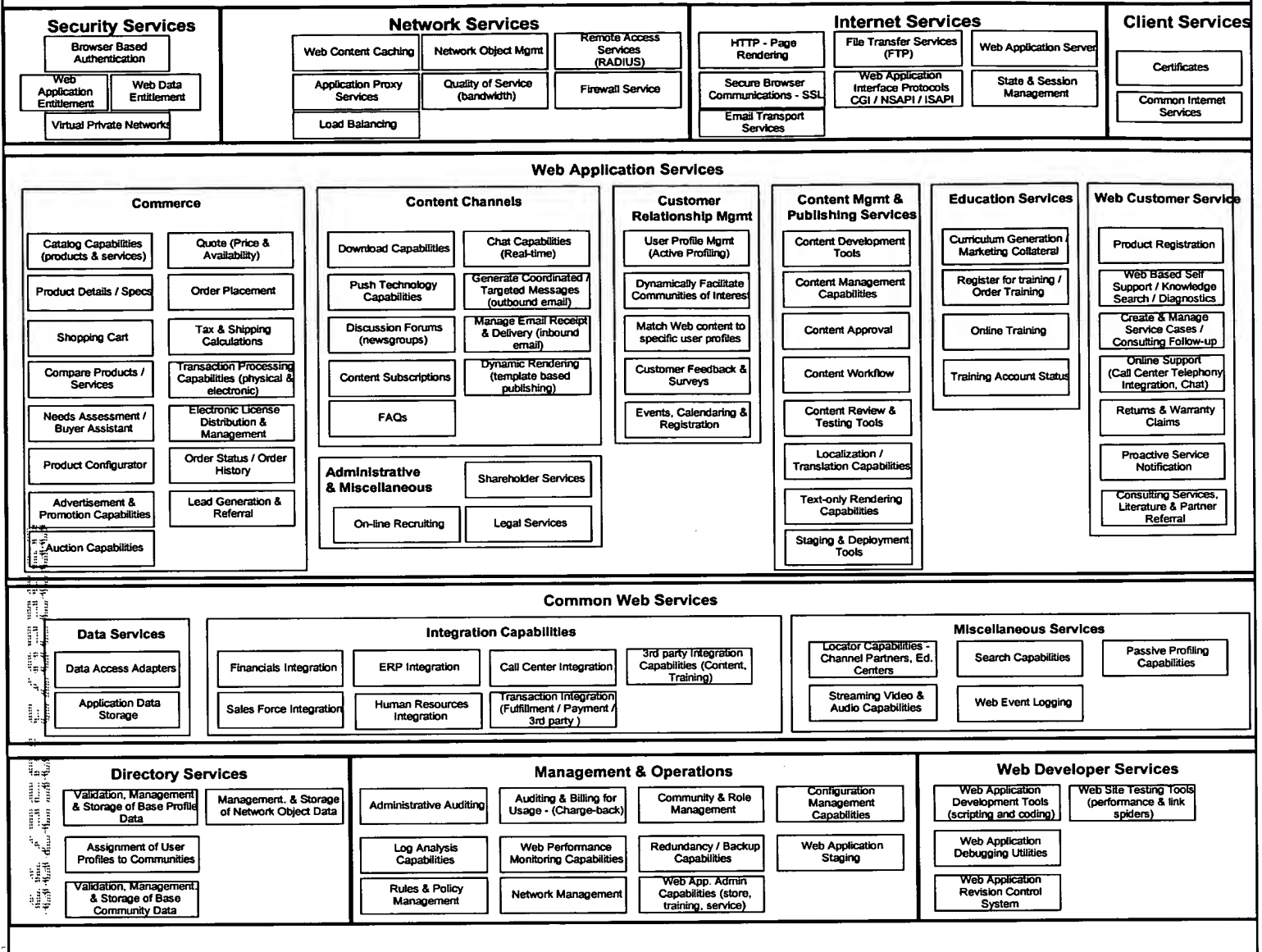


Figure 1L

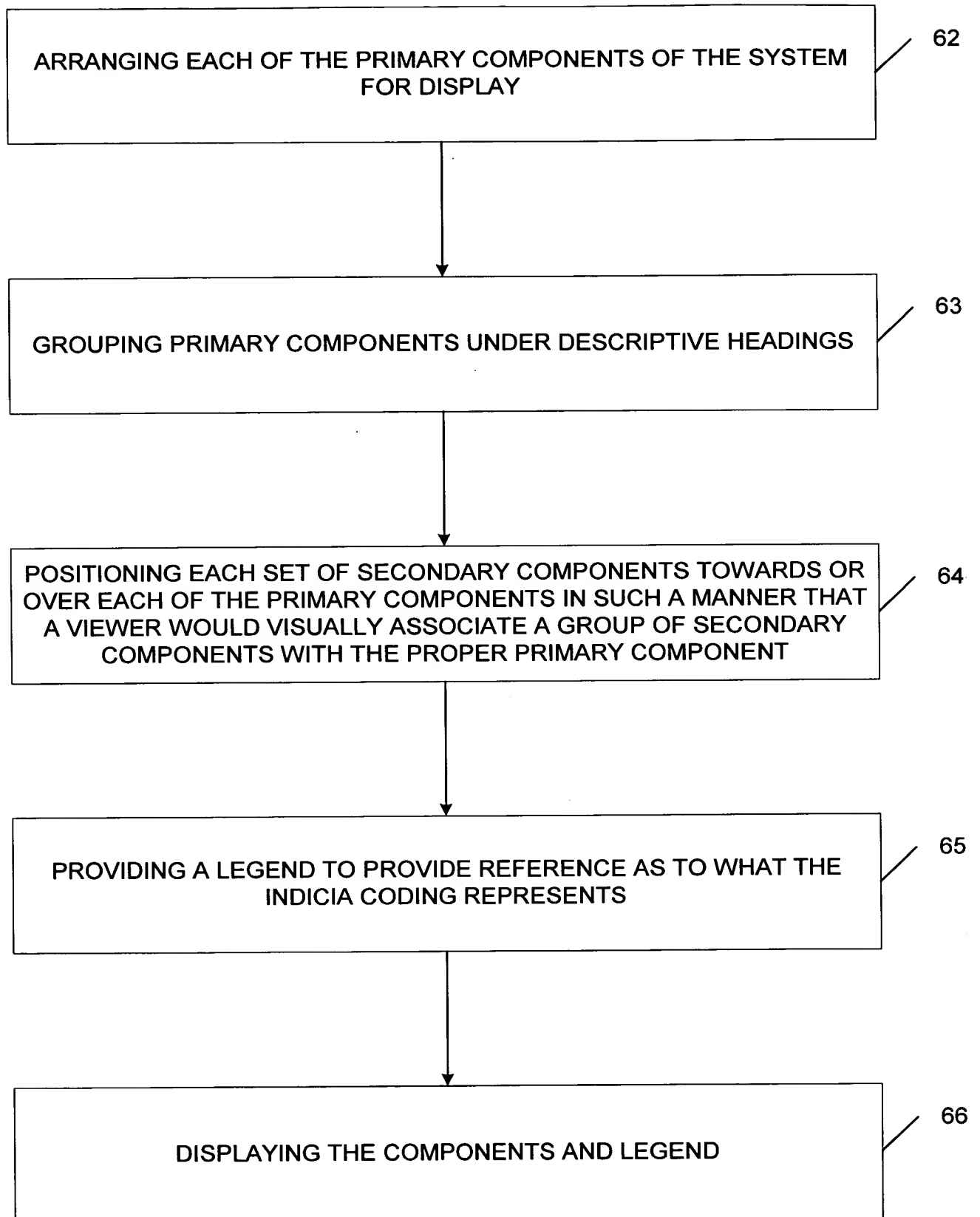


Figure 1L-1

# Web Architecture Framework - Today's Environment

## Legend

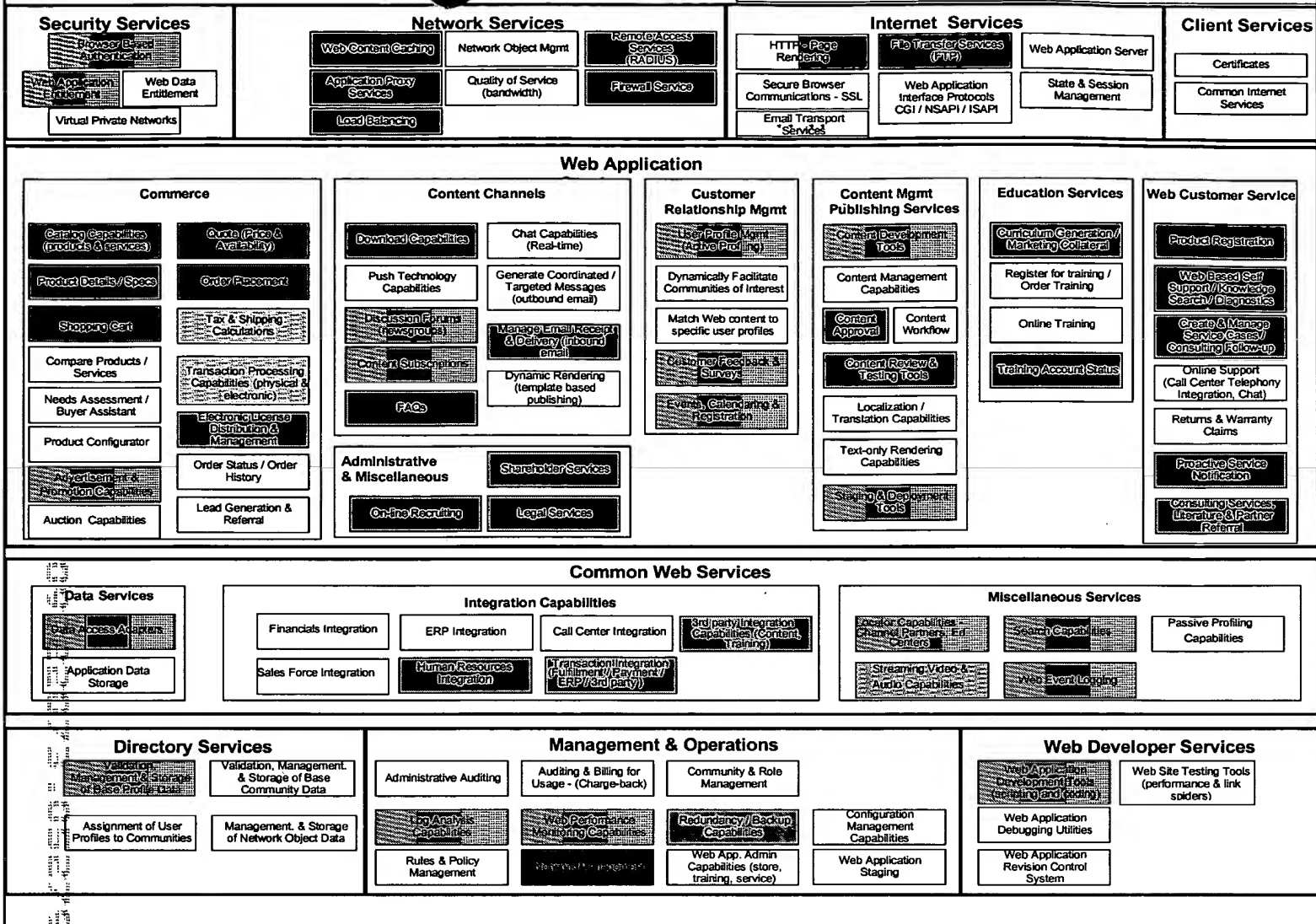


Figure 1M

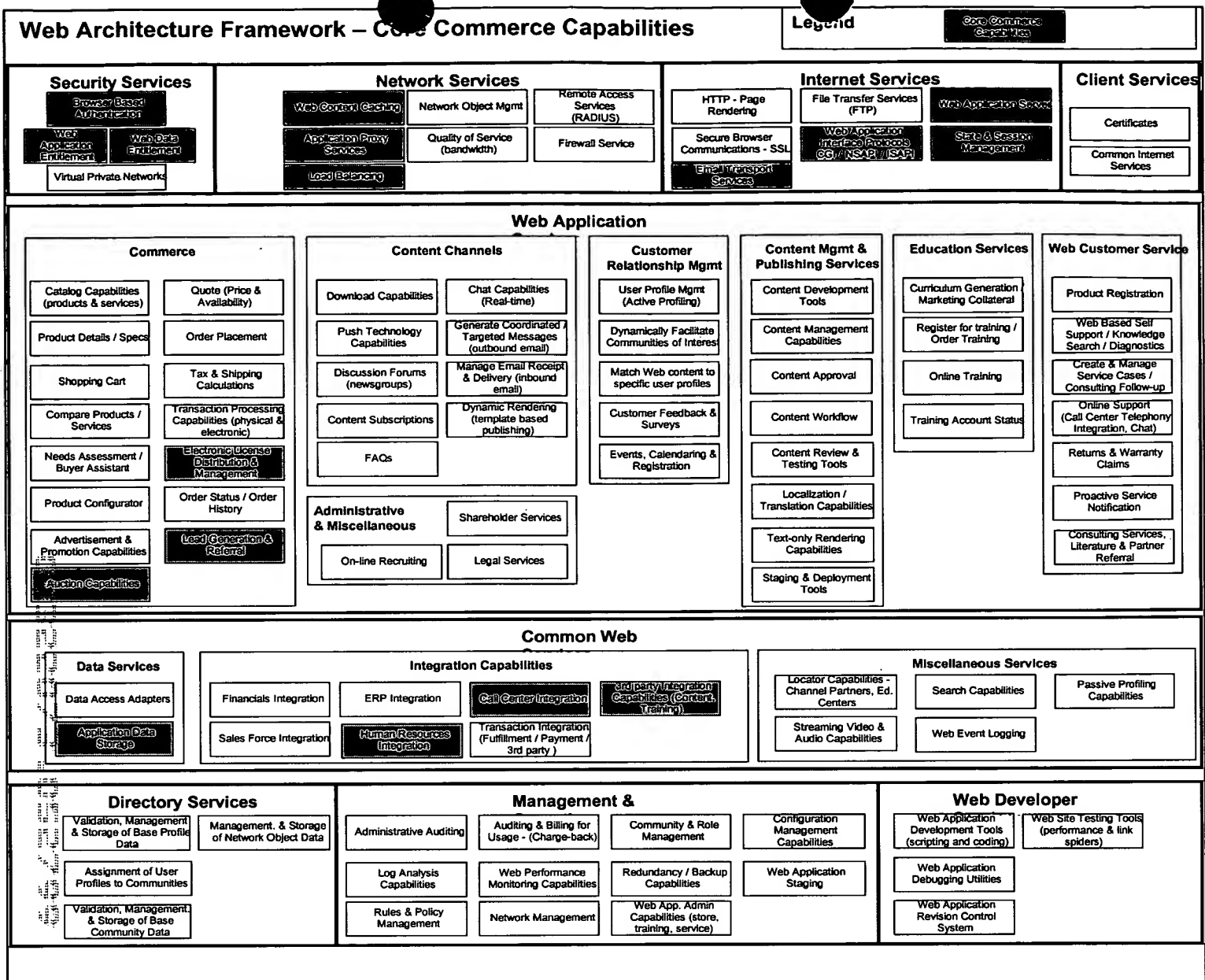


Figure 1N



# Web Architecture Framework – Immediate Activities

## LEGEND

<b>First Delivery</b>	<b>Second Delivery</b>	
Revenue (basics)	Revenue (enhance)	Content (publishing basics – prep for communities)
Identity (basics)	Identity (security, leads)	Identity (targeting messages)
Tools & Assets (web tab)	Tools & Assets (Search & Ops)	Tools & Assets (enhance profiling)

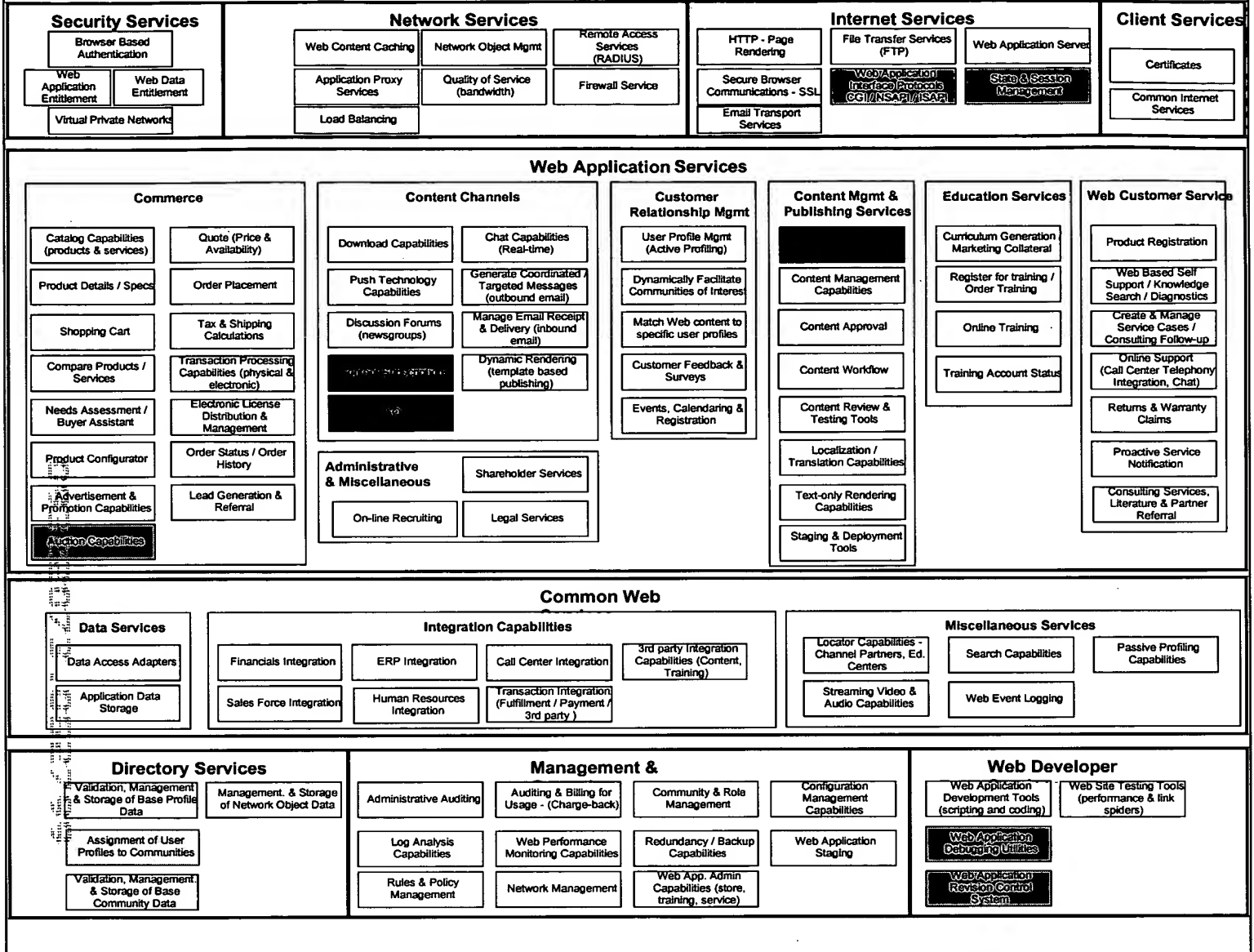


Figure 1P

## Core Commerce Capabilities - Infrastructure Services

Legend: ■ Available Today

### Core Capabilities

### Existing Capabilities

#### Browser-Based Authentication

- ☐ Verifies user identity using built-in browser functionality
- ☐ Maintains authentication information throughout sessions
- ☐ Utilizes centralized directory of profiles
- ☐ Provides LDAP compatibility
- ☐ Provides NDS Compatibility

#### Web Application Entitlement

- ☐ Restricts access to specific web applications based upon user privileges
- ☐ Determines if a user or group of users have permission to perform an operation in a specific application
- ☐ Utilizes centralized directory of profiles for entitlement data
- ☐ Provides LDAP compatibility
- ☐ Provides NDS compatibility

#### Web Data Entitlement

- ☐ Restricts access to web content and data based upon user privileges
- ☐ Determines if a user or group of users have permission to manipulate web data (create, read, update, delete)
- ☐ Utilizes centralized directory of profiles for entitlement data
- ☐ Provides LDAP compatibility
- ☐ Provides NDS compatibility

#### Web Content Caching

- Stores frequently requested web pages and graphics in a temporary location
- Serves up previously cached content without accessing original source
- Updates cache automatically to ensure integrity of content

#### Application Reverse Proxy Services

- Passes requests from external clients to internal web servers and return results
- Serves as trusted agent to access internal machines on the behalf of clients
- Hides IP Addresses of machines inside a firewall from external clients
- Provides configuration control over external access permissions

#### Load Balancing

- ☐ Spreads tasks among application servers using and intelligent load-balance scheme (CPU utilization)
- ☐ Provides a centralized task distribution mechanism for routing services
- ☐ Identifies servers that are off-line and re-route traffic

#### Firewall Service

- Protects resources on a private network from users of other networks
- Filters network traffic based on security rules
- ☐ Provides alarm notification of attacks
- Provides logging and reporting functions
- Provides port and traffic control

#### HTTP-Page Rendering

- Serves requested web pages and graphics from web servers to client web browsers
- ☐ Supports page rendering for multiple languages
- Supports multiple content sources (file system, databases, scripts)

### Core Capabilities

### Existing Capabilities

#### Secure Browser Communications - SSL

- Provides encrypted communication with common web browsers
- Supports the Secure Sockets Layer protocol 2.0
- Supports the Secure Sockets Layer protocol 3.0

#### File Transfer Services (FTP)

- Transfers files between computers on the Internet using the standard File Transfer Protocol (FTP)
- Stores files on a file system or database
- Provides mechanism to manage access control for files on a FTP server

#### Web Application Interface/Protocols (CGI/NSAPI/ISAPI)

- Supports Common Gateway Interface (CGI) protocol
- Supports Netscape API (NSAPI) protocol
- ☐ Supports Microsoft's API (ISAPI) protocol
- ☐ Provides alternative to the interface mechanism that may be used

#### Web Application Server Plugin

- ☐ Executes web application logic
- ☐ Utilizes user session information to support interactive applications
- ☐ Provides scalability features
- ☐ Provides fail-over features
- ☐ Provides application programming logic

#### State and Session Management

- Provides mechanism to note and remember one or more preceding events in a given sequence of interactions with the user or application
- ☐ Tracks state and session information
- ☐ Manages multiple independent sessions simultaneously active
- ☐ Supports Client Cookies
- ☐ Supports Client URL Encoding
- Supports Server Information with Client Cookies
- Supports Server Information with URL Session Identifiers

#### Oracle Financials Integration

- ☐ Provides adapter or mechanism to communicate and transfer data at the functional level with Oracle Financials via API's
- ☐ Supports Oracle's API sets for external integration
- ☐ Supports Data Access Adapter capabilities

#### SIEBEL Integration

- ☐ Provides adapter or mechanism to communicate and transfer data at the functional level with Siebel via API's
- ☐ Supports Siebel's API sets for external integration
- ☐ Supports Data Access Adapter capabilities

#### Transaction Integration (Fulfillment/Payment/ERP/3rd Party)

- Provides adapter or mechanism to transfer transactional information to a fulfillment house, payment processing center, enterprise resource planning system or other third party
- Provides reporting and logging functions to detect communication errors

#### Multi-Party Integration Capabilities (Content, Training)

- ☐ Provides adapter or mechanism to communicate with external systems that provide additional content such as catalog information
- ☐ Provides reporting and logging functions to detect communication errors

Figure 1Q

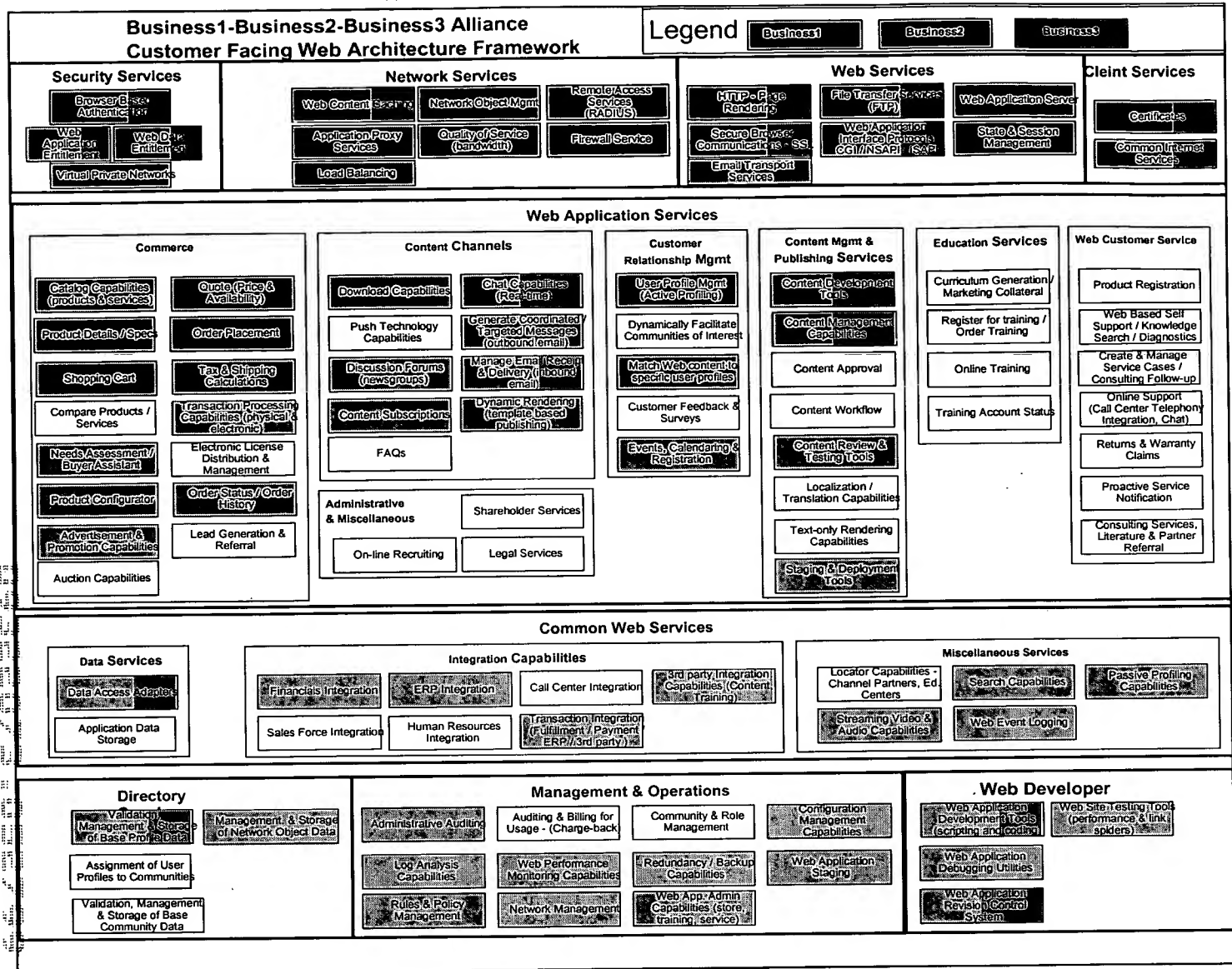


Figure 1R

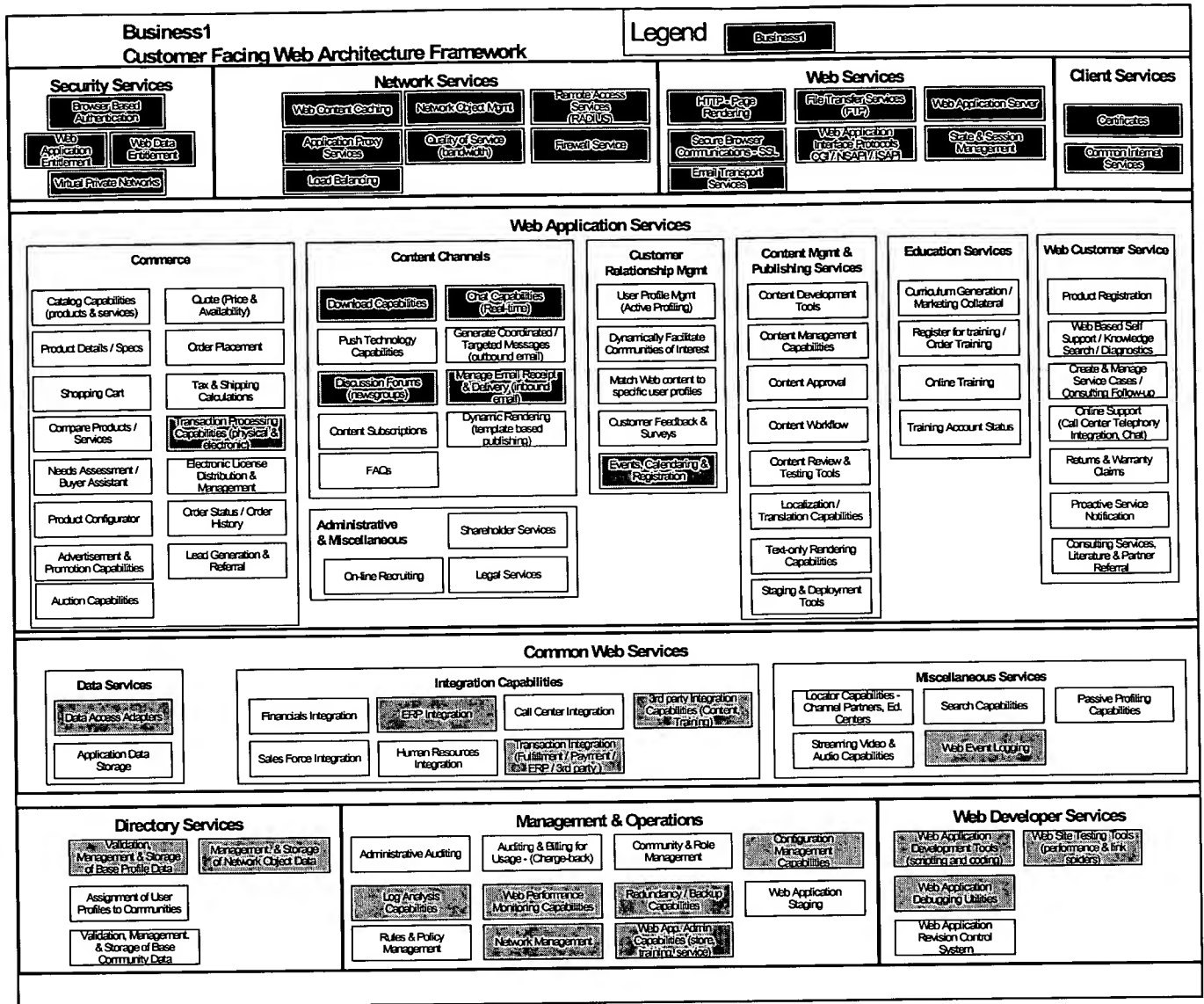


Figure 1S

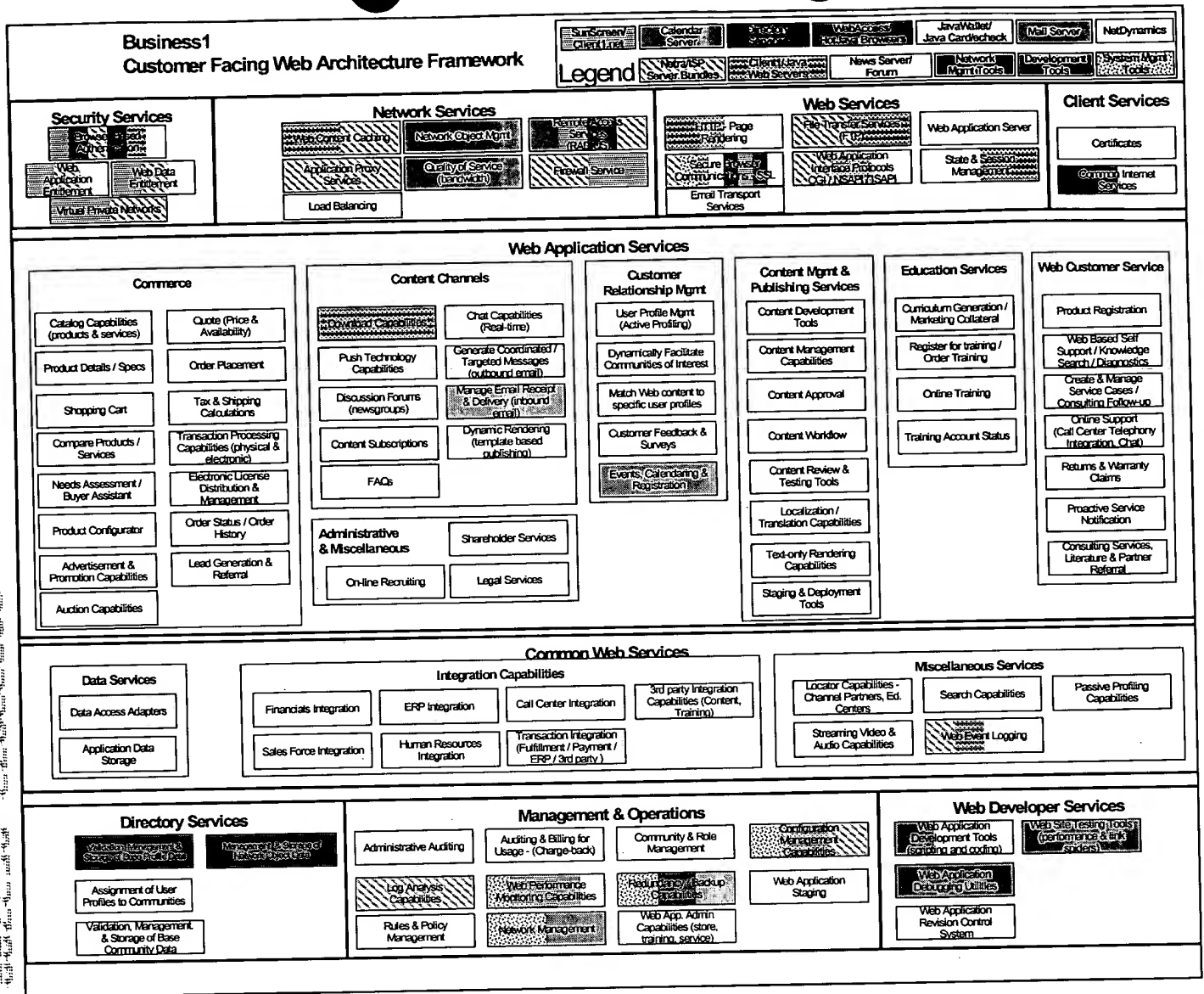


Figure 1T

**Business2 Communications**  
Customer Facing Web Architecture Framework

Legend

Business2

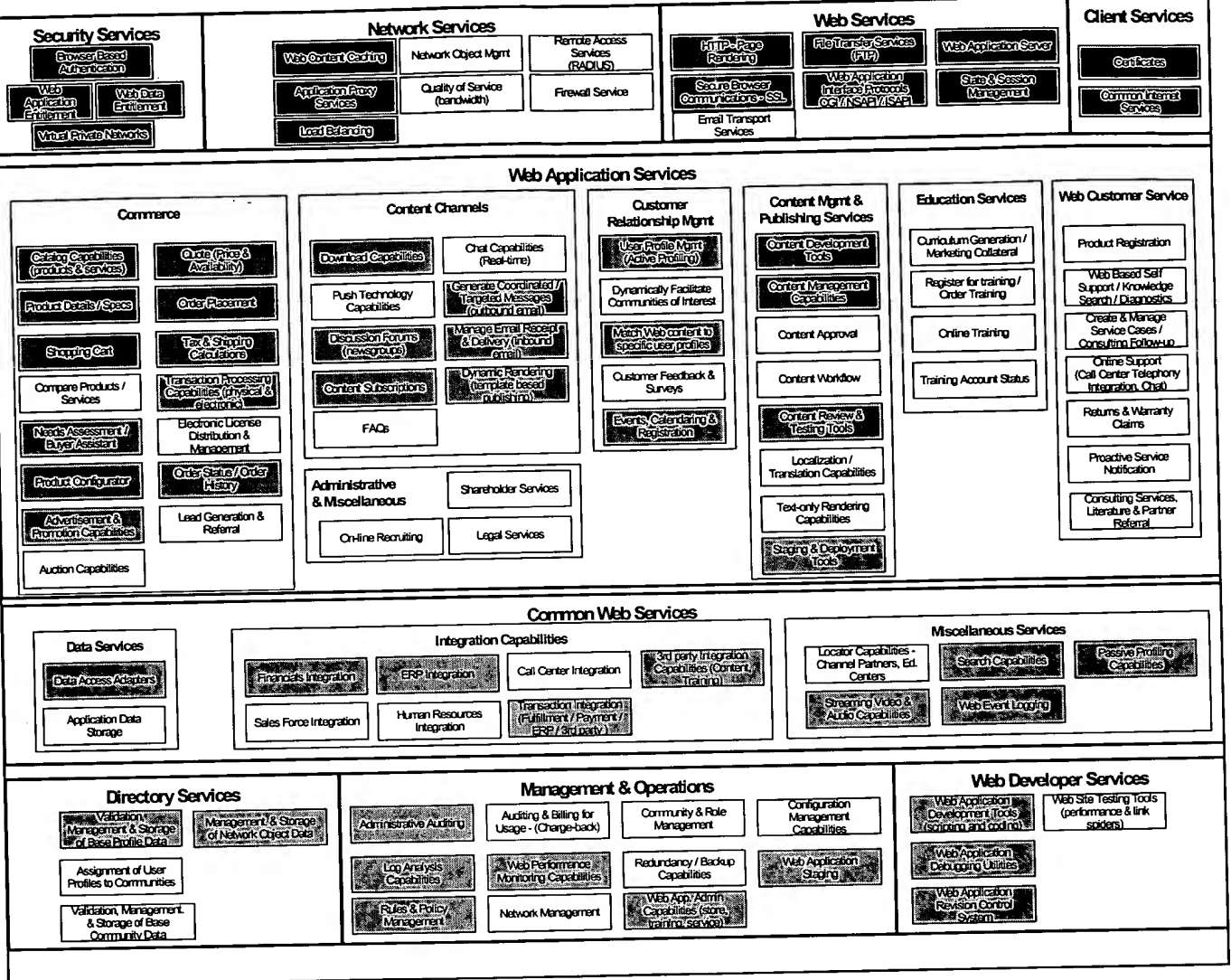
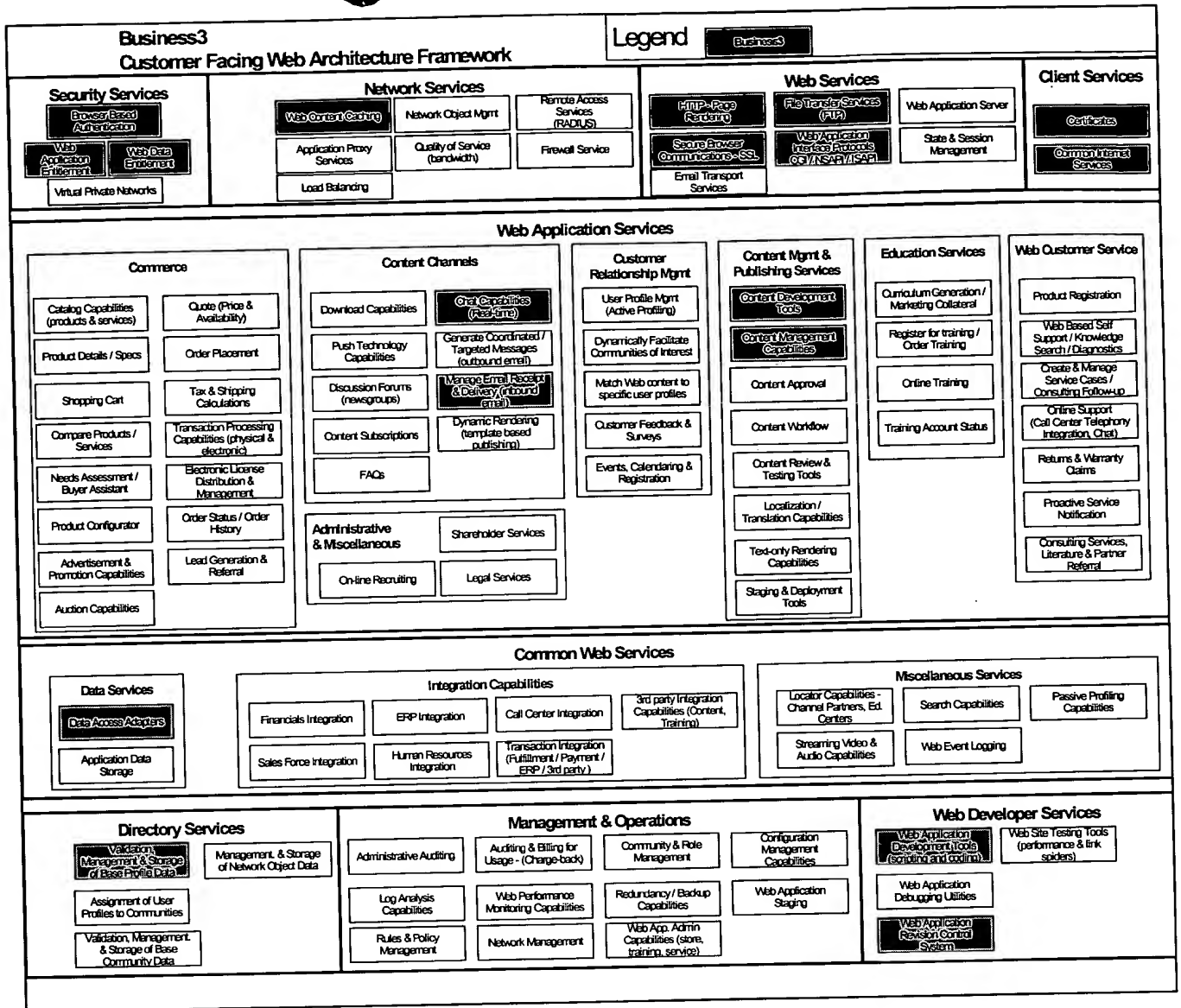


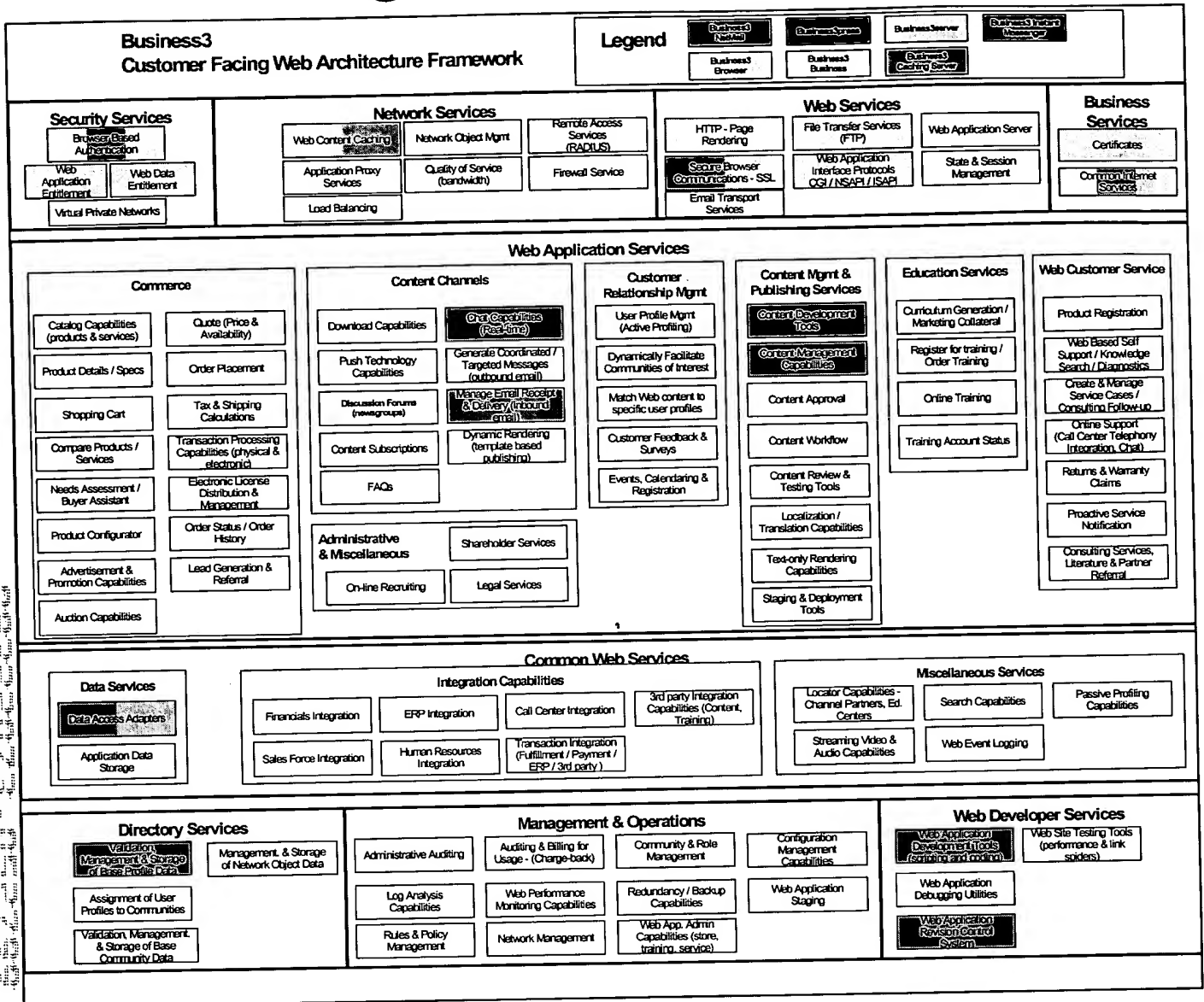
Figure 1U





**Figure 1W**

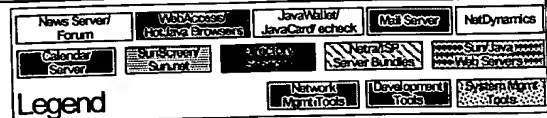




**Figure 1X**

## Business1

### Customer Facing Capabilities - Infrastructure Services



#### Core Capabilities

#### Extended Detail

##### Security Services



- ☒ Verifies user identity using built-in browser functionality
- ☒ Maintains authentication information throughout sessions
- ☒ Utilizes centralized directory of profiles
- ☐ Provides LDAP compatibility
- ☐ Provides NDS compatibility



- ☒ Restricts access to specific web applications based upon user privileges
- ☒ Determines if a user or group of users have permission to perform an operation in a specific application
- ☒ Utilizes centralized directory of profiles for entitlement data
- ☒ Provides LDAP compatibility
- ☐ Provides NDS compatibility



- ☒ Restricts access to web content and data based upon user privileges
- ☒ Determines if a user or group of users have permission to manipulate web data (create, read, update, delete)
- ☒ Utilizes centralized directory of profiles for entitlement data
- ☒ Provides LDAP compatibility
- ☐ Provides NDS compatibility



- ☒ Offers guaranteed secure data transfer
- ☒ Allows remote login
- ☒ Provides ability to grant varying levels of access based on user identity

##### Network Services



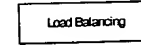
- ☒ Stores frequently requested web pages and graphics in a temporary location
- ☒ Serves up previously cached content without accessing original source
- ☒ Updates cache automatically to ensure integrity of content

#### Core Capabilities

#### Extended Detail



- ☒ Passes requests from external clients to internal web servers and returns results
- ☒ Serves as trusted agent to access machines on the behalf of clients
- ☒ Hides IP Addresses of machines from external clients
- ☒ Provides configuration control over access permissions
- ☐ Provides reverse proxy services



- ☐ Spreads tasks among application servers using an intelligent load-balance scheme (e.g., CPU utilization)
- ☐ Provides a centralized task distribution mechanism for routing services
- ☐ Identifies servers that are off-line and re-routes traffic



- ☒ Provides centralized directory to facilitate network object interactions
- ☒ Provides ability to administer network objects (e.g. printers, routers)



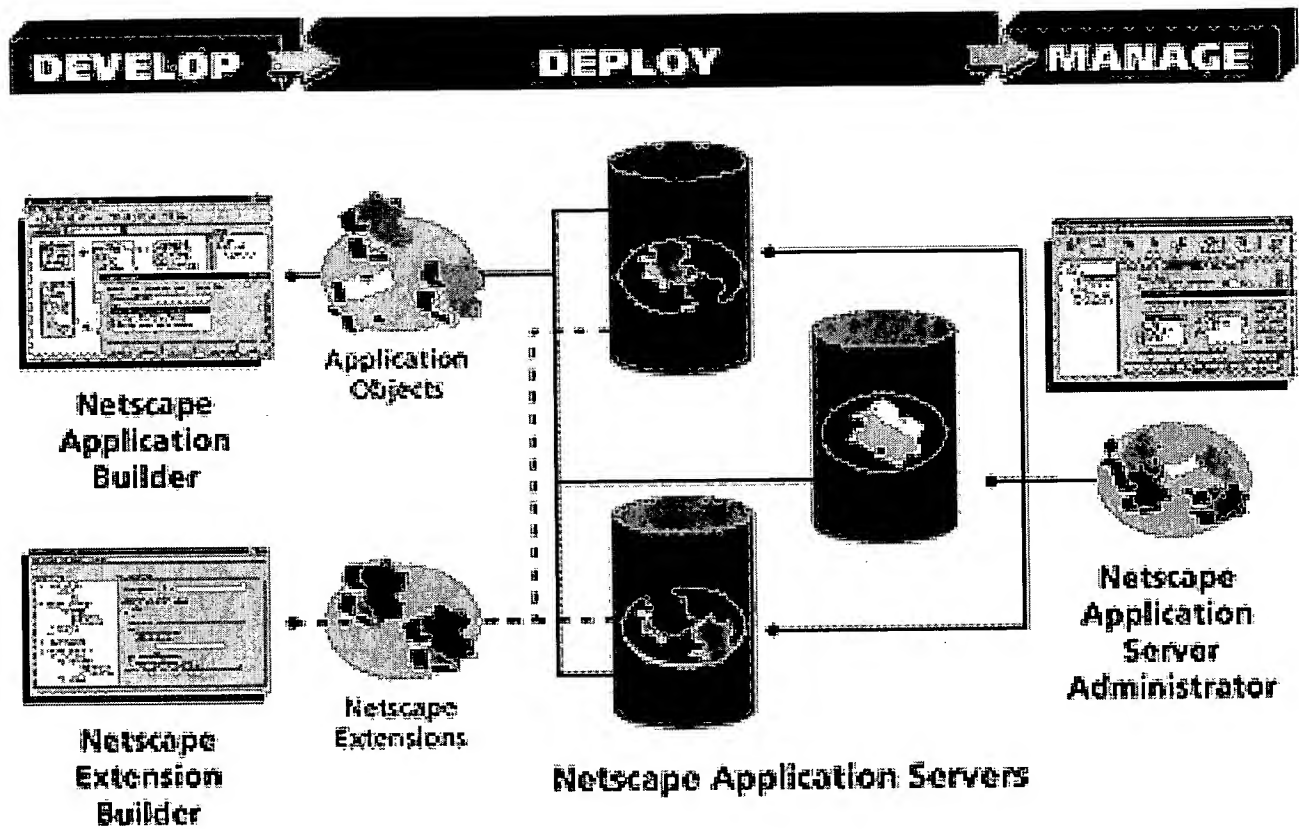
- ☒ Offers range of speed and bandwidth based on customer profile (e.g., larger, higher profile customers get faster service upon request)



- ☐ Enables high density modem pooling
- ☐ Provides a single dial-in number for ISDN or Analog calls and an automatic back-up number if first one does not work
- ☐ Creates an Integrated Firewall / authentication
- ☐ Allows remote authenticated access to intranet

Figure 1Y

**Client2 Application Server**



**Figure 1Z**

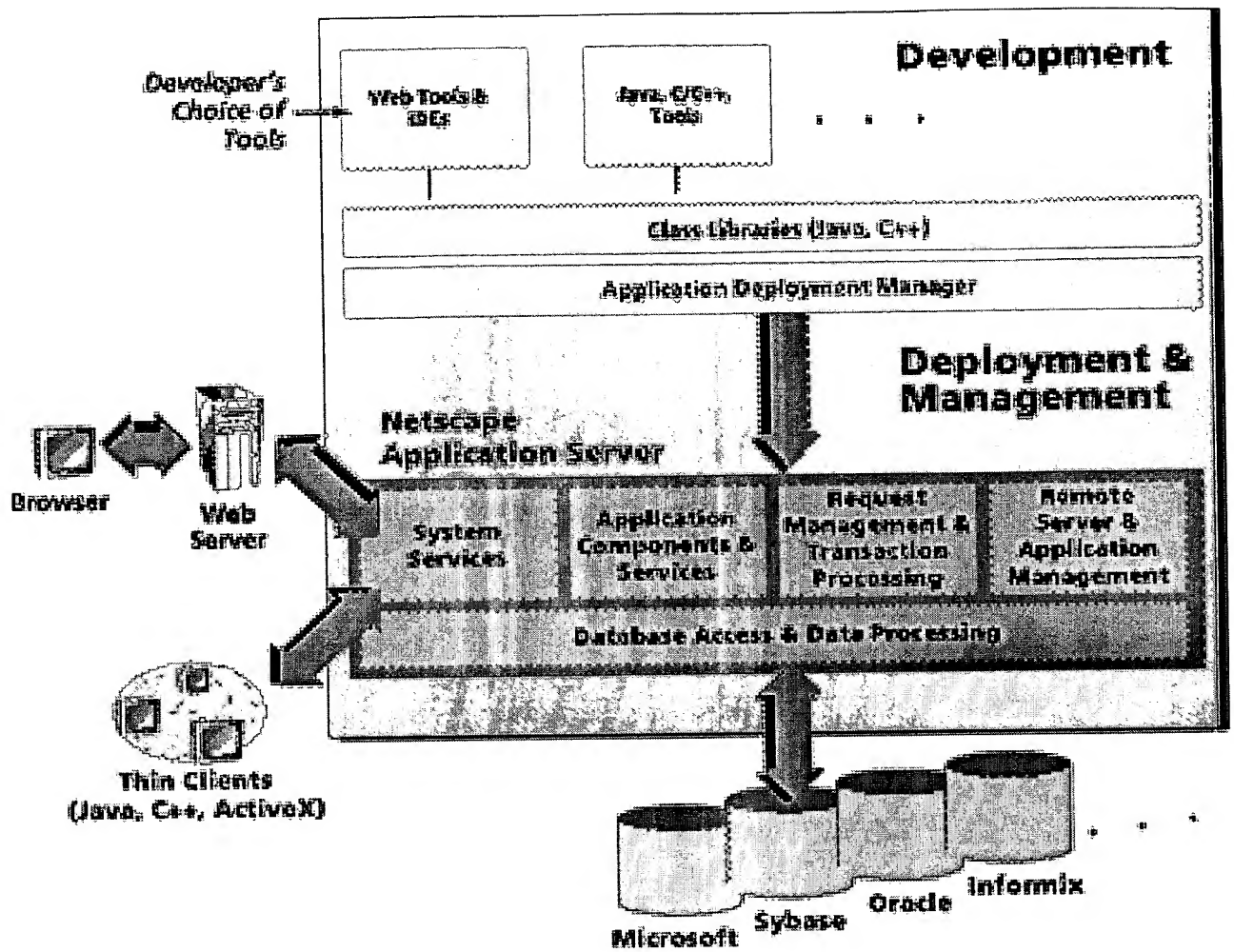


Figure 1AA

## Client2 ECXpert

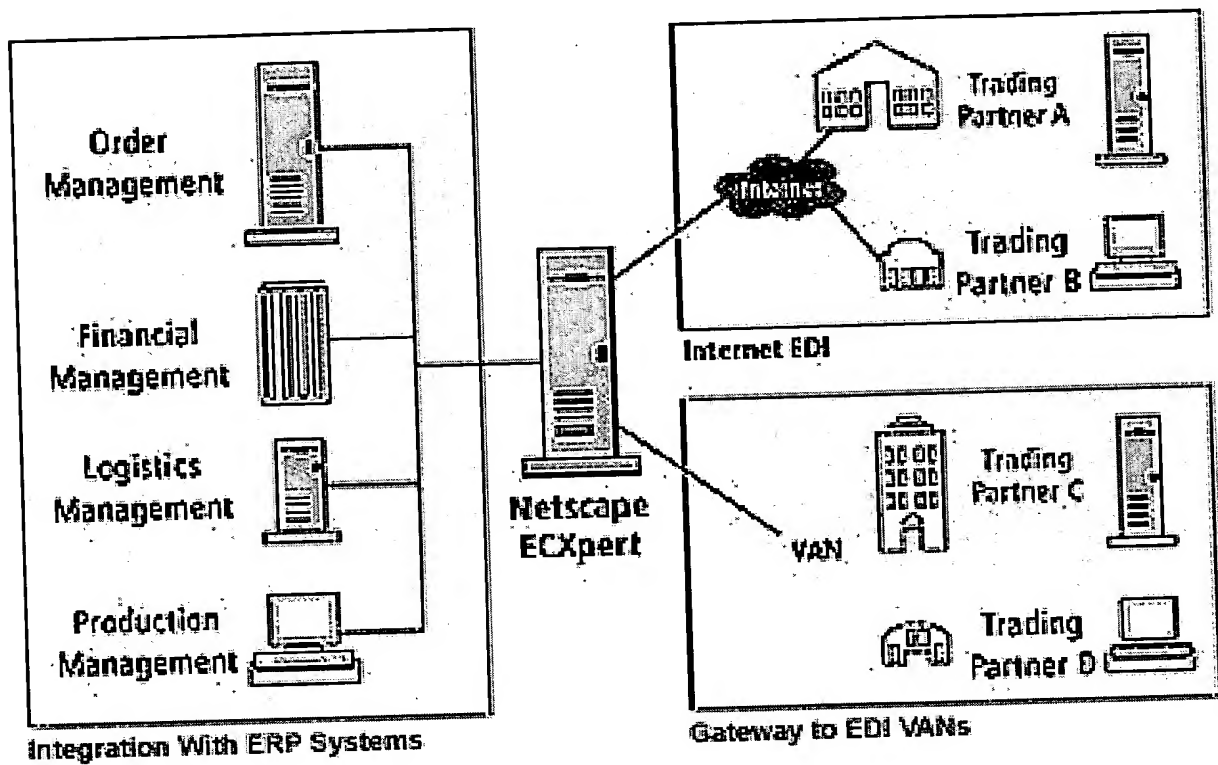


Figure 1AB

## Client2 ECXpert

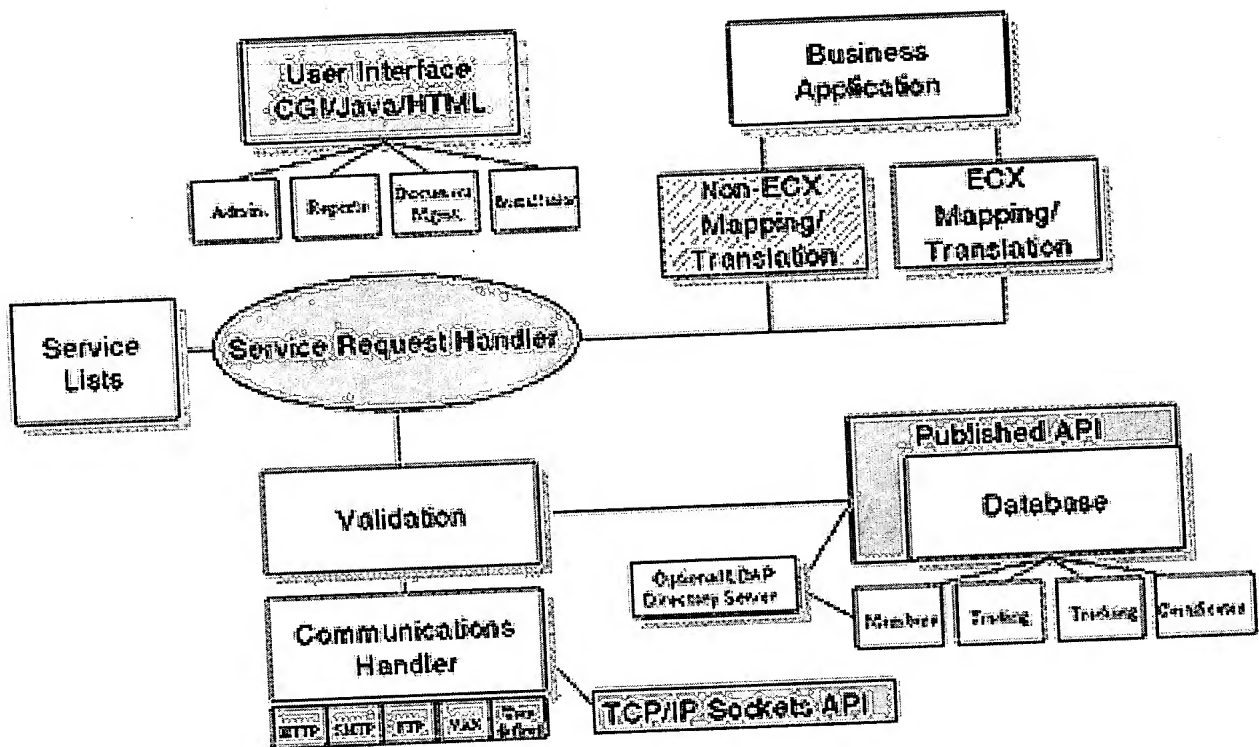


Figure 1AC

Client2 SellerXpert

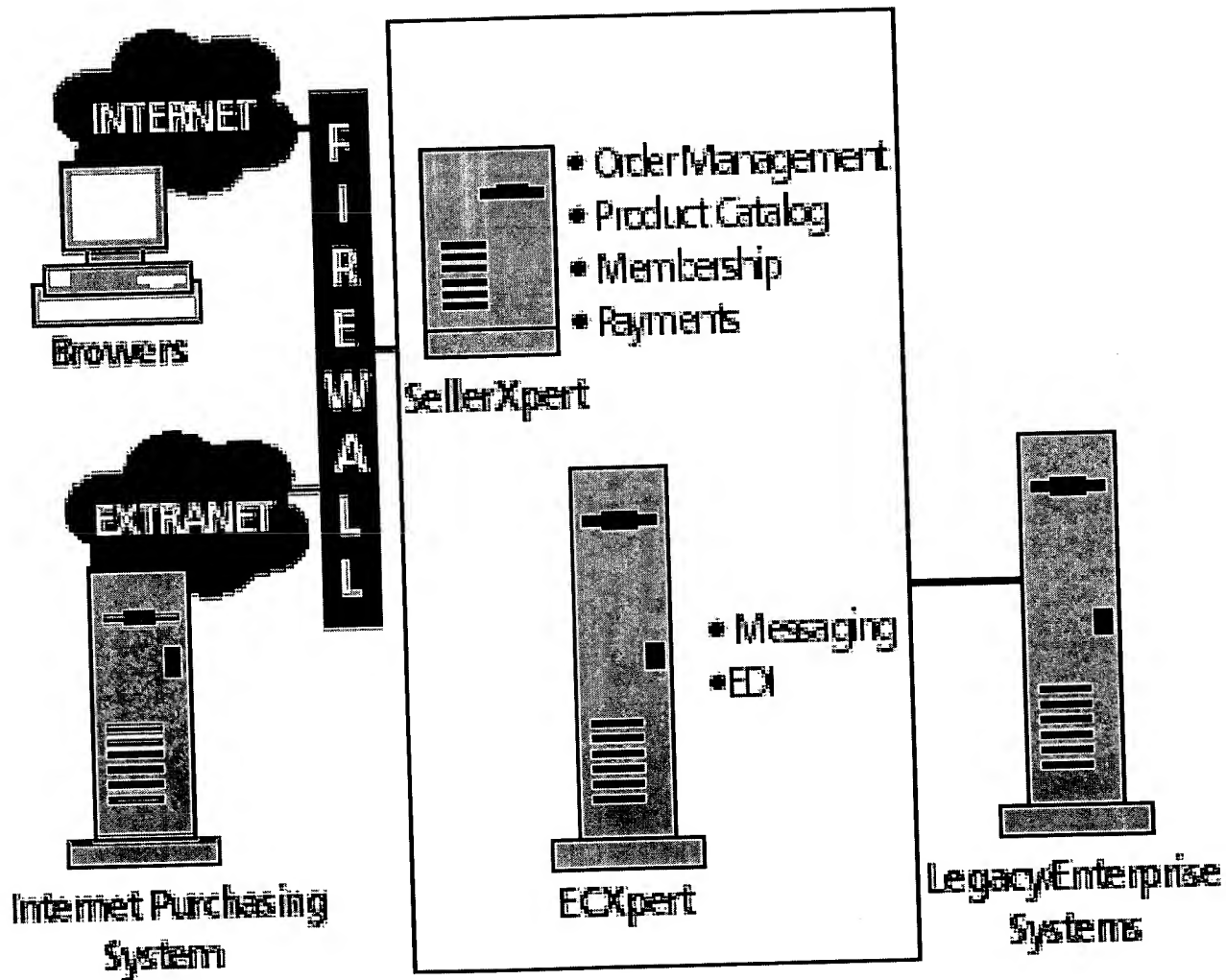


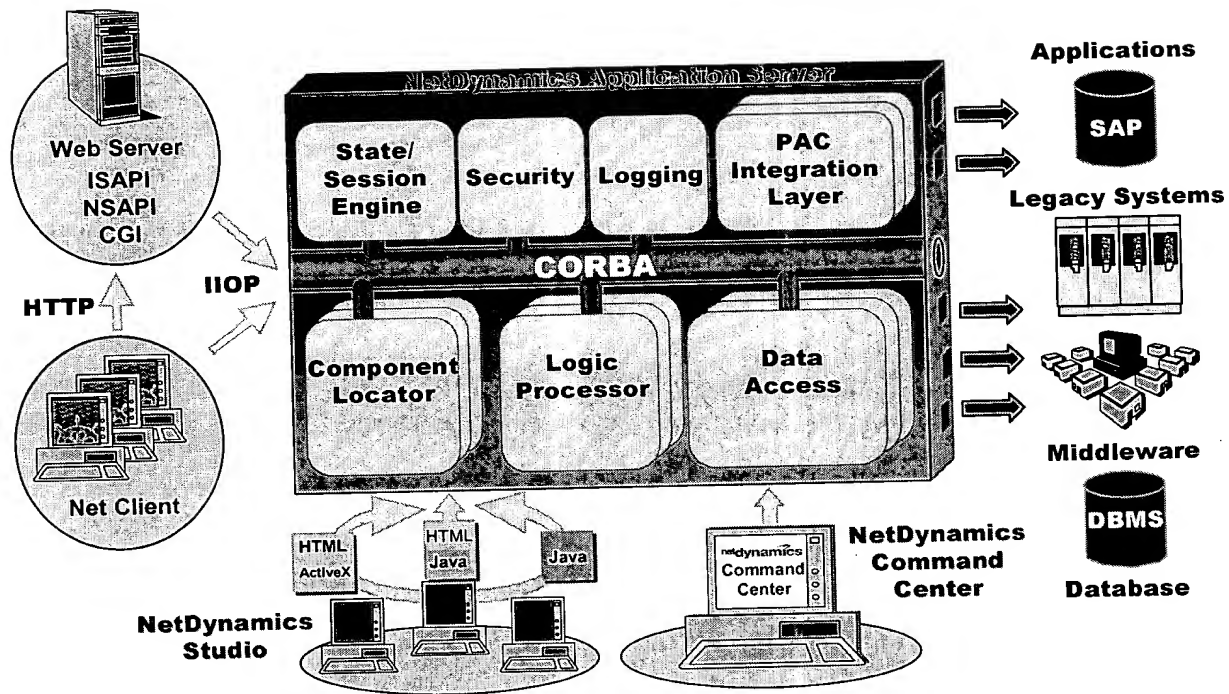
Figure 1AD

[illegible]

**Figure 1AE**



## Client1 NetDynamics



- ① Any Web browser requests a dynamic-page
- ② The Web server notifies ColdFusion
- ③ ColdFusion processes the dynamic-page based on the CFML tags
- ④ ColdFusion generates an HTML page
- ⑤ The Web server sends the HTML page to the browser

Figure 1AF

## Client1 Internet Mail Server

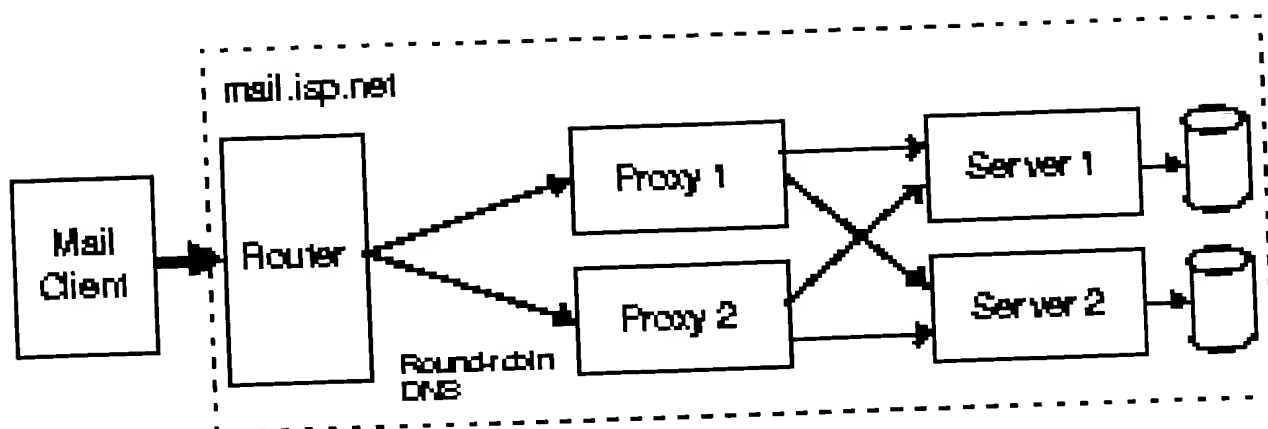


Figure 1AG

## Client1 Internet News Server

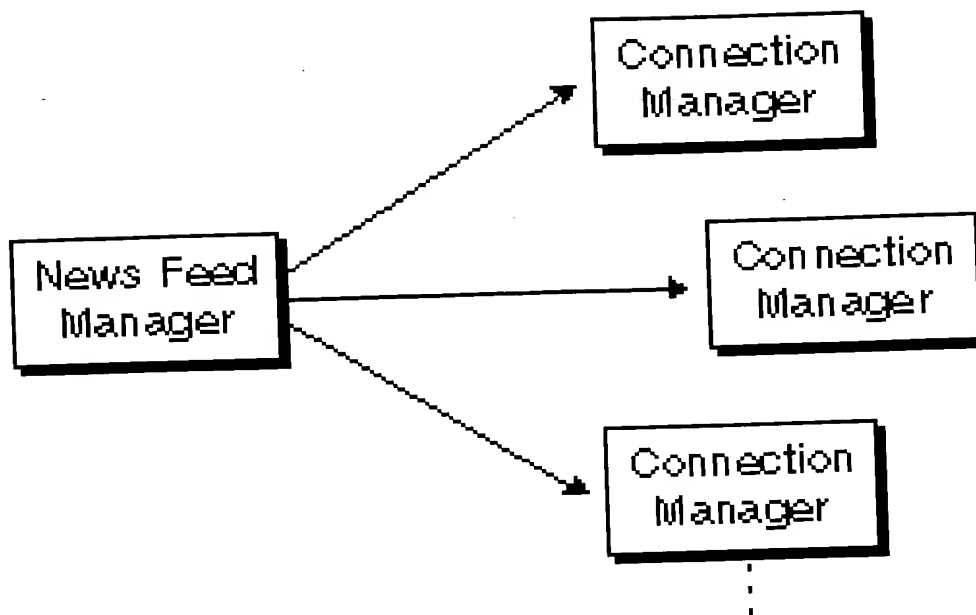


Figure 1AH

## Client1 Personal WebAccess Browser

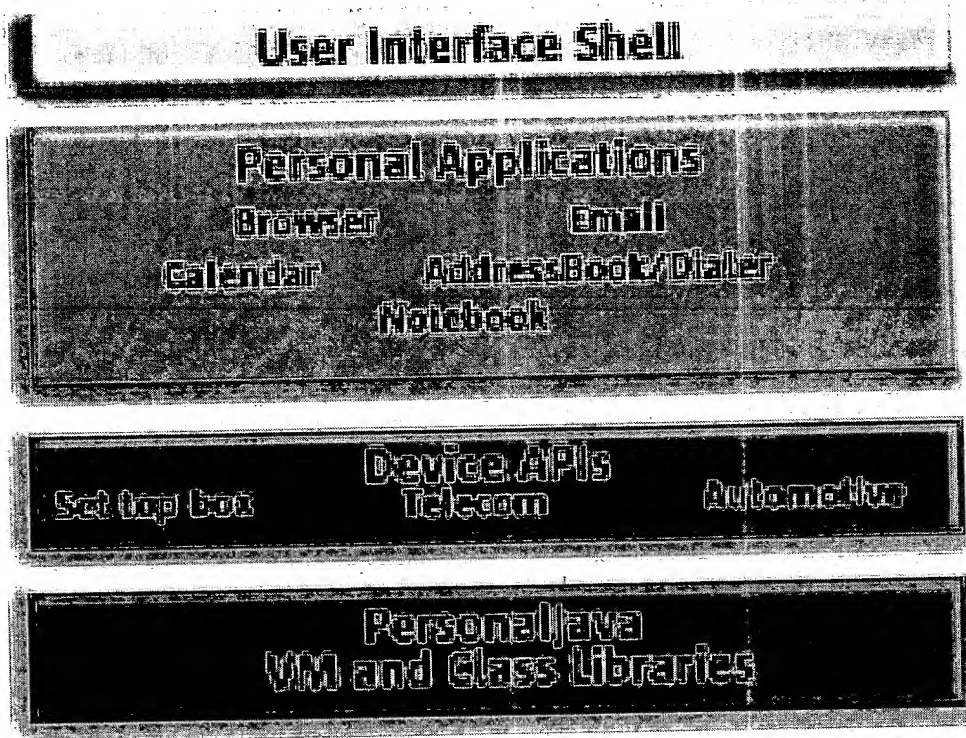
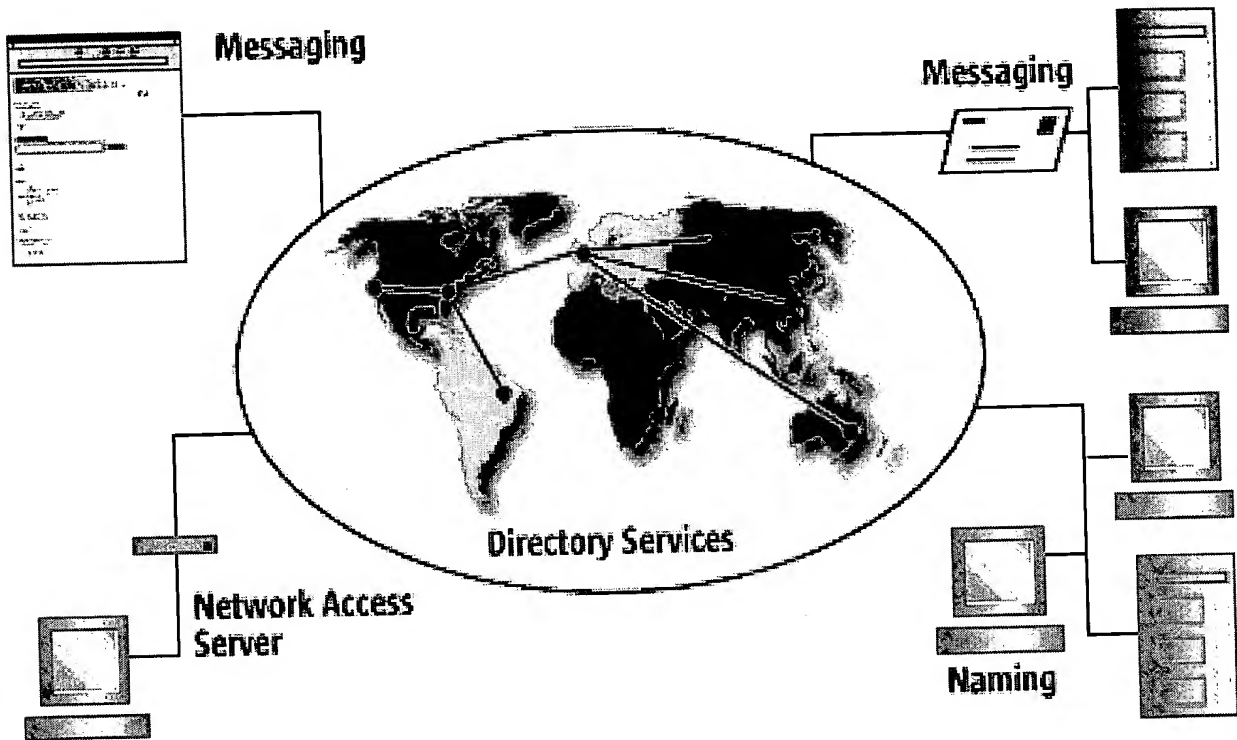


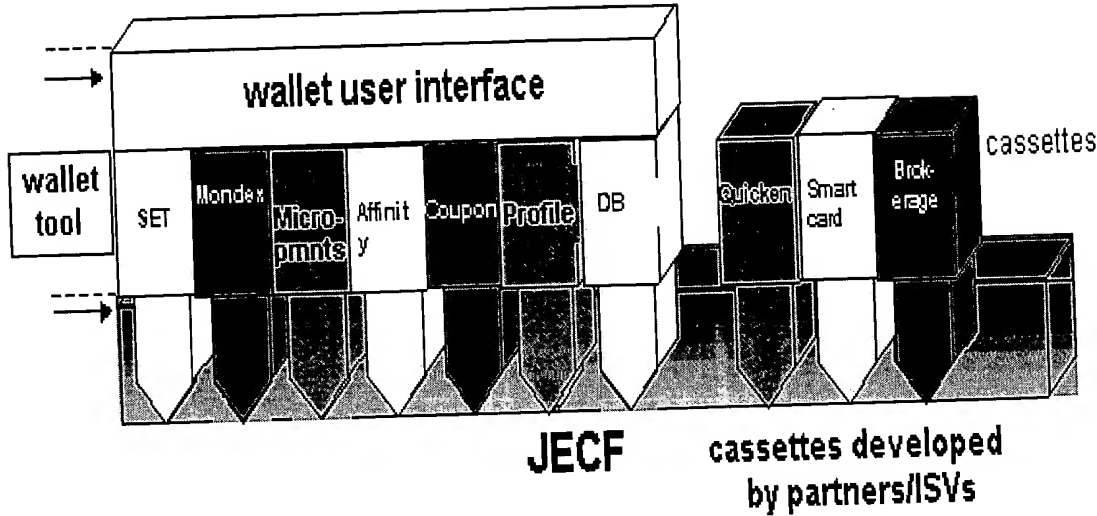
Figure 1A1

**Client1 Directory Services**



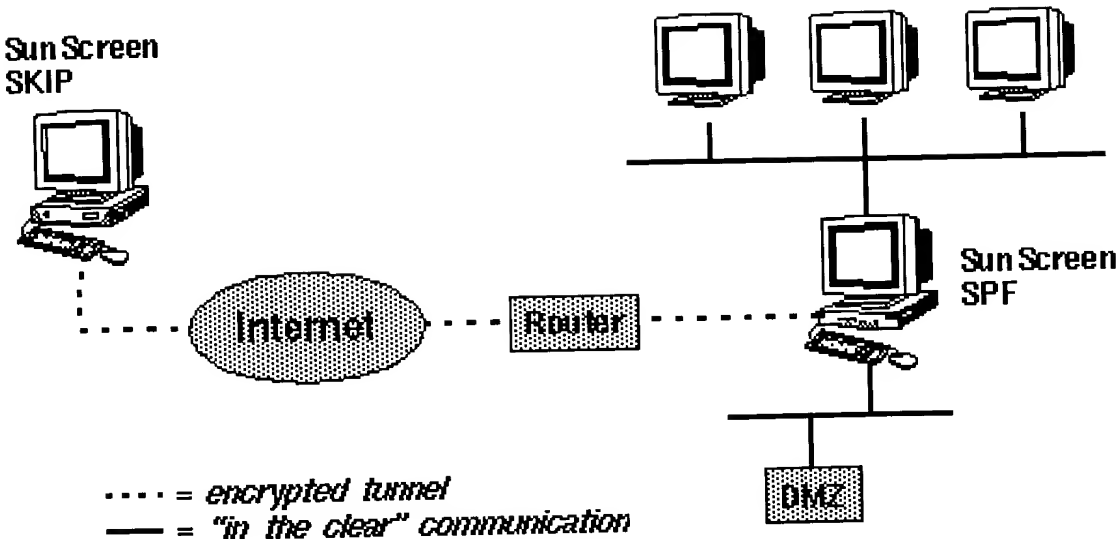
**Figure 1AJ**

**Client1 JavaWallet**



**Figure 1AK**

**Client1Screen Product Suite**



**Figure 1AL**

# Netra Internet Server Bundle

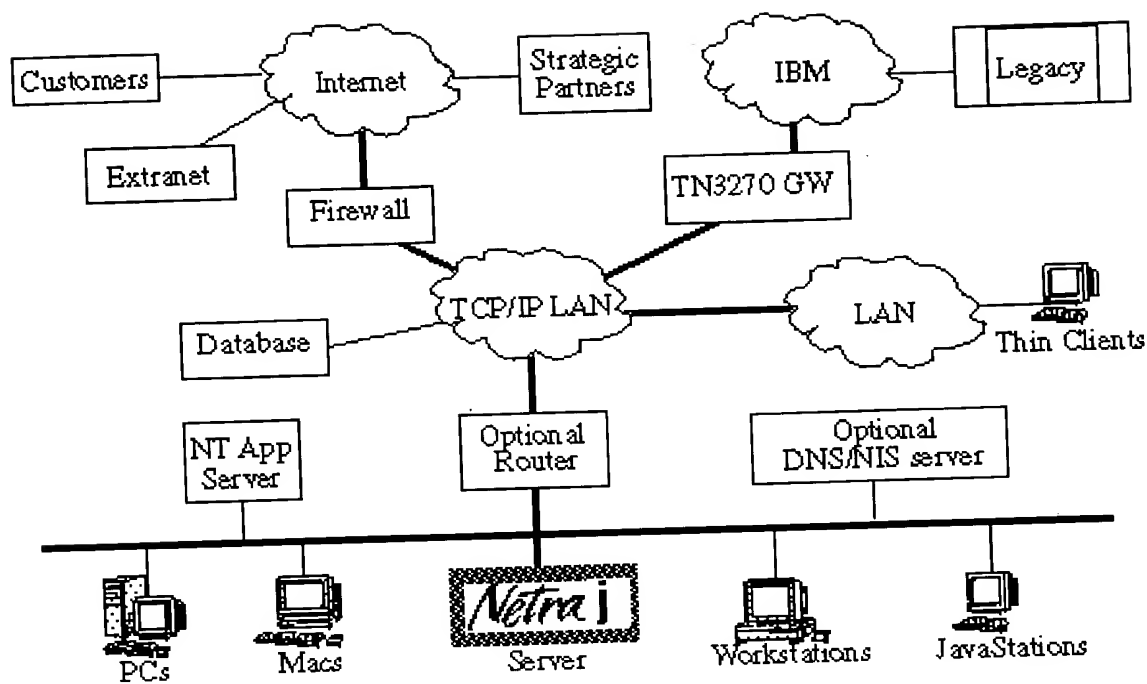


Figure 1AM



## Solaris ISP Server Bundle

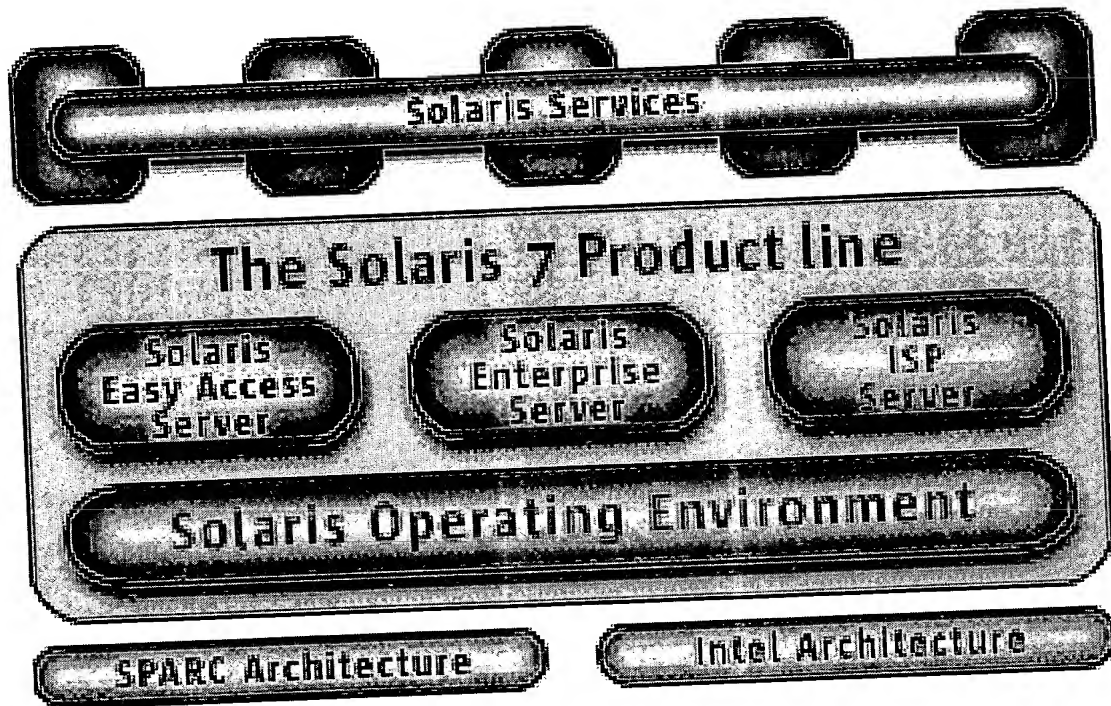


Figure 1AN

## Development & Testing Tools

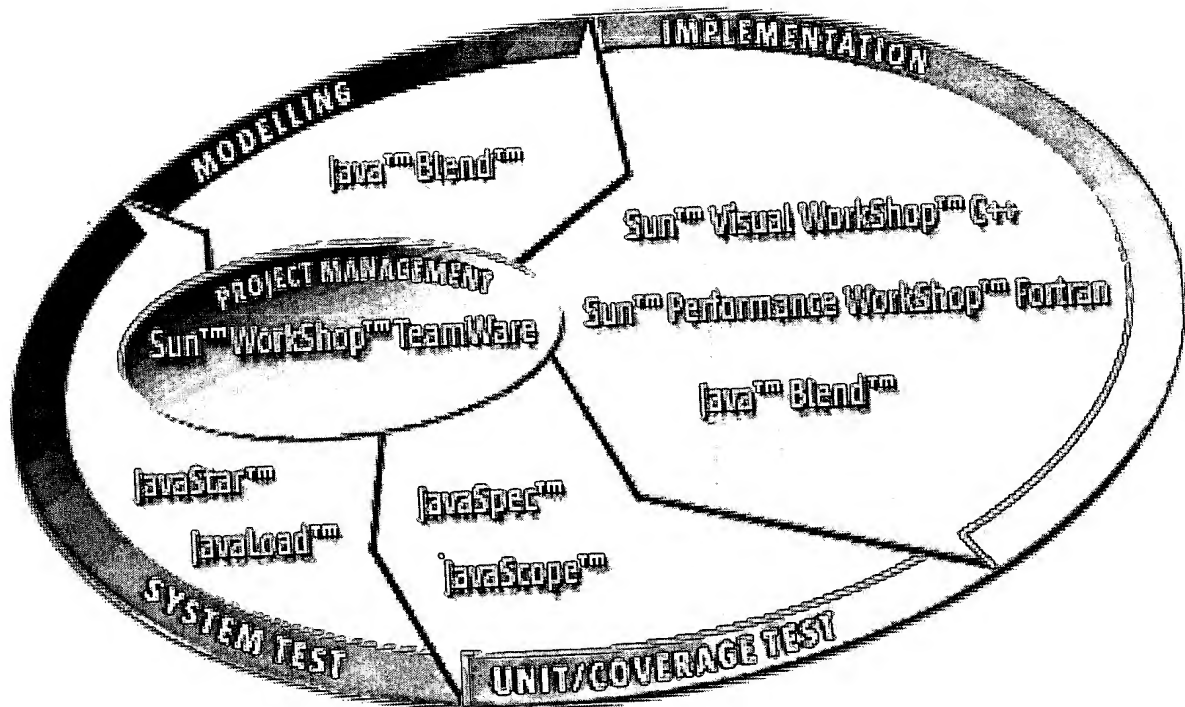


Figure 1AO

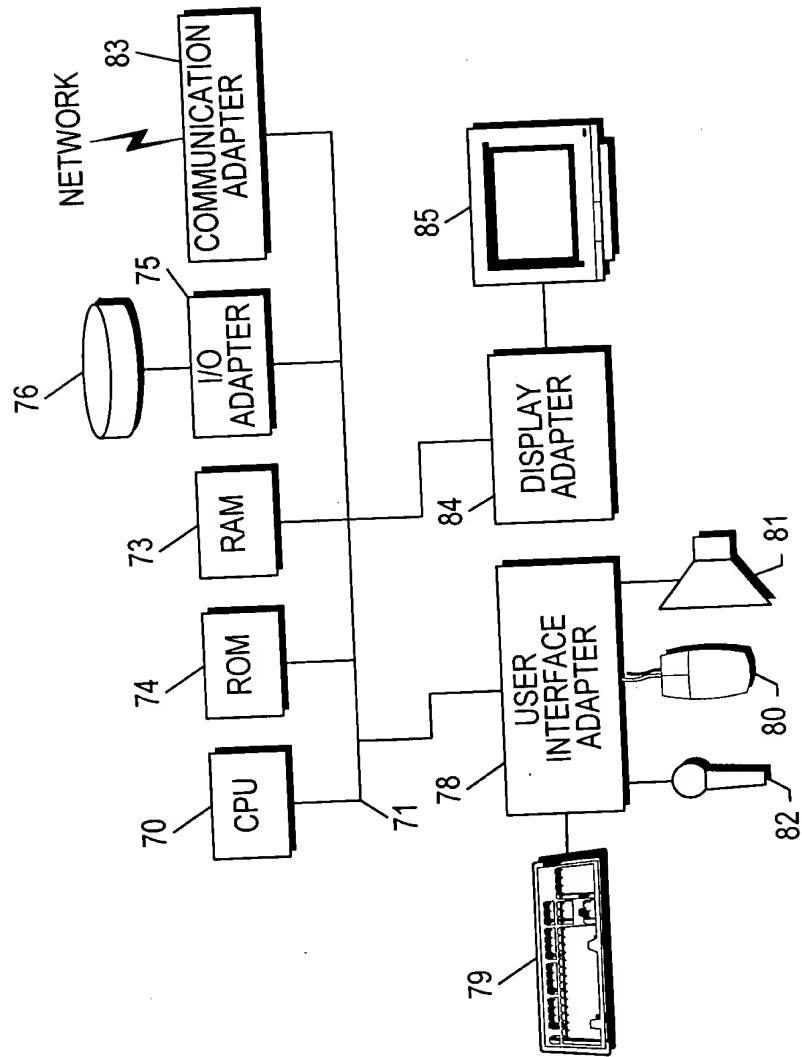


Figure 2A

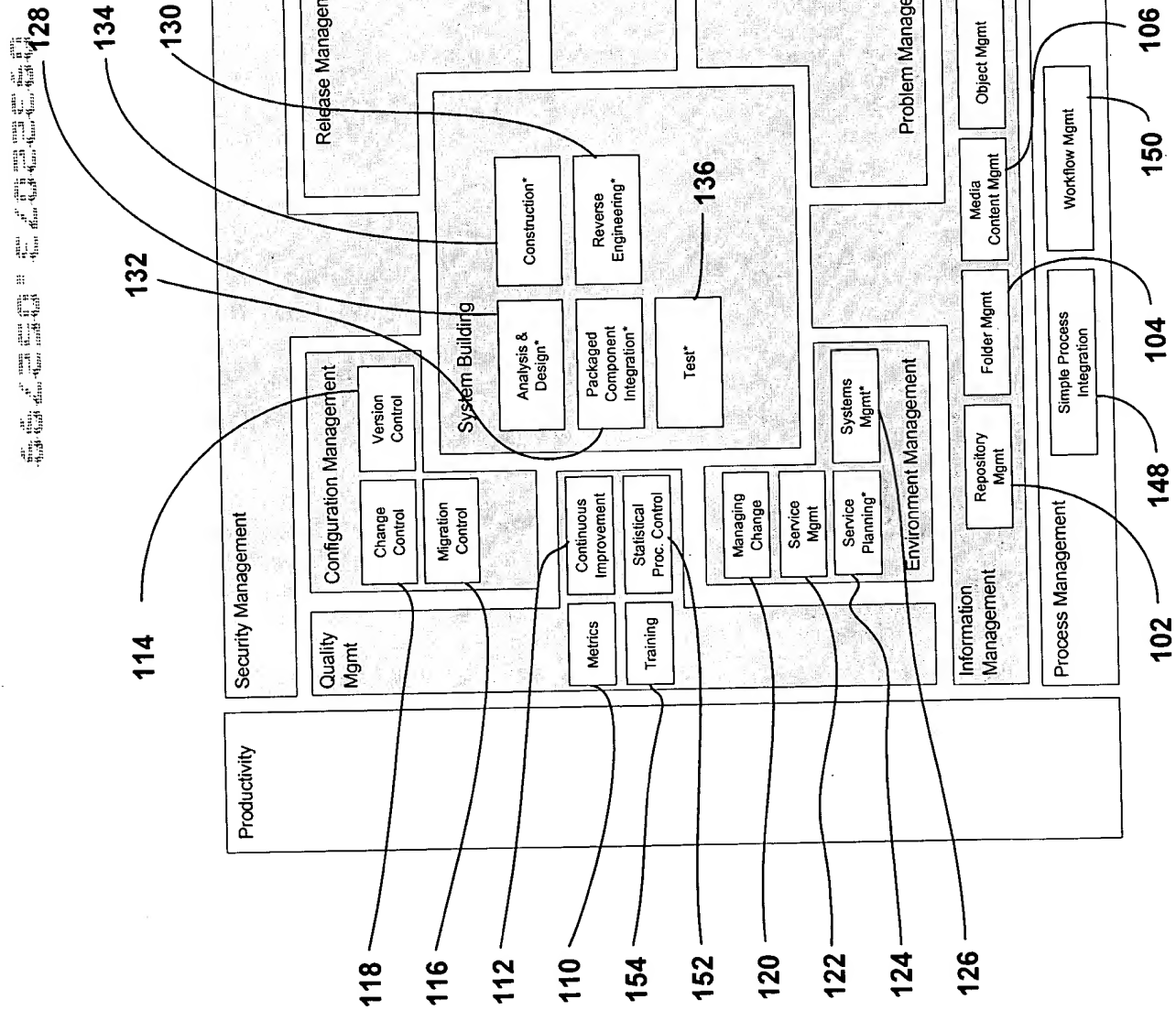
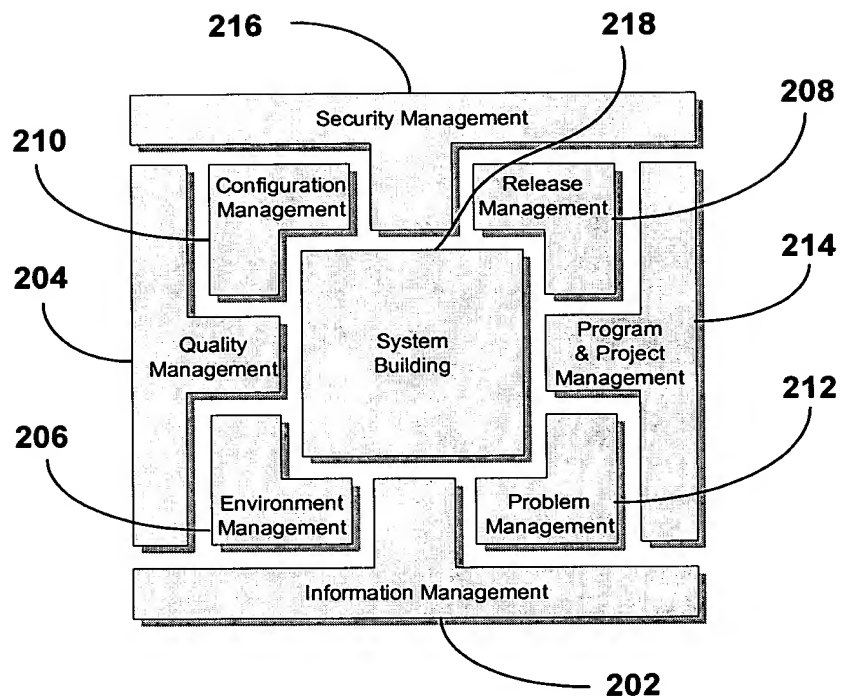
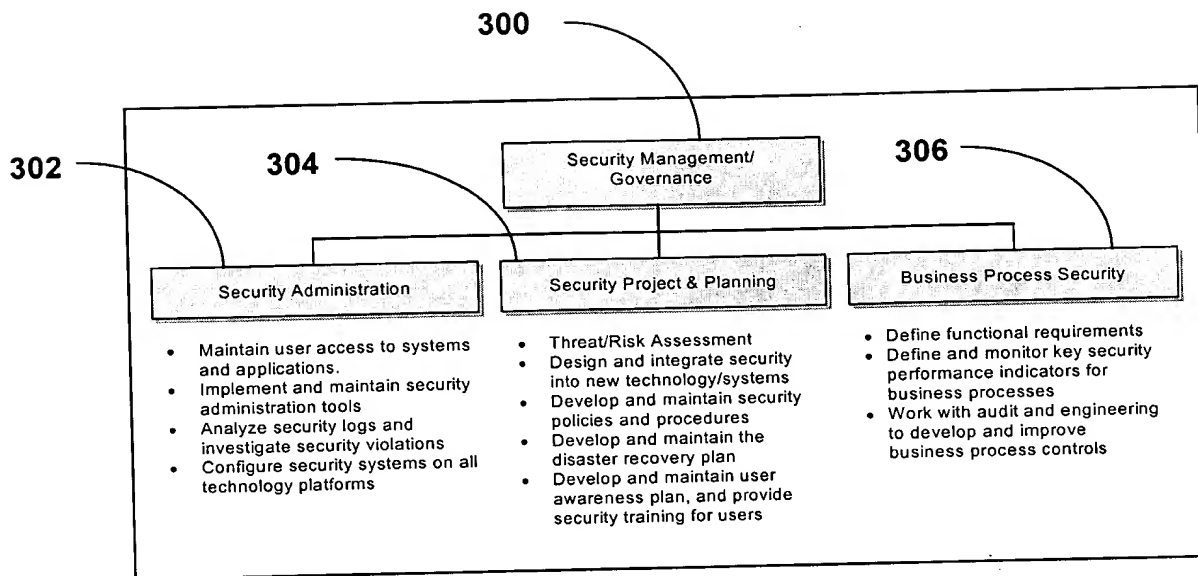


Figure 2B



**Figure 2C**



**Figure 3**

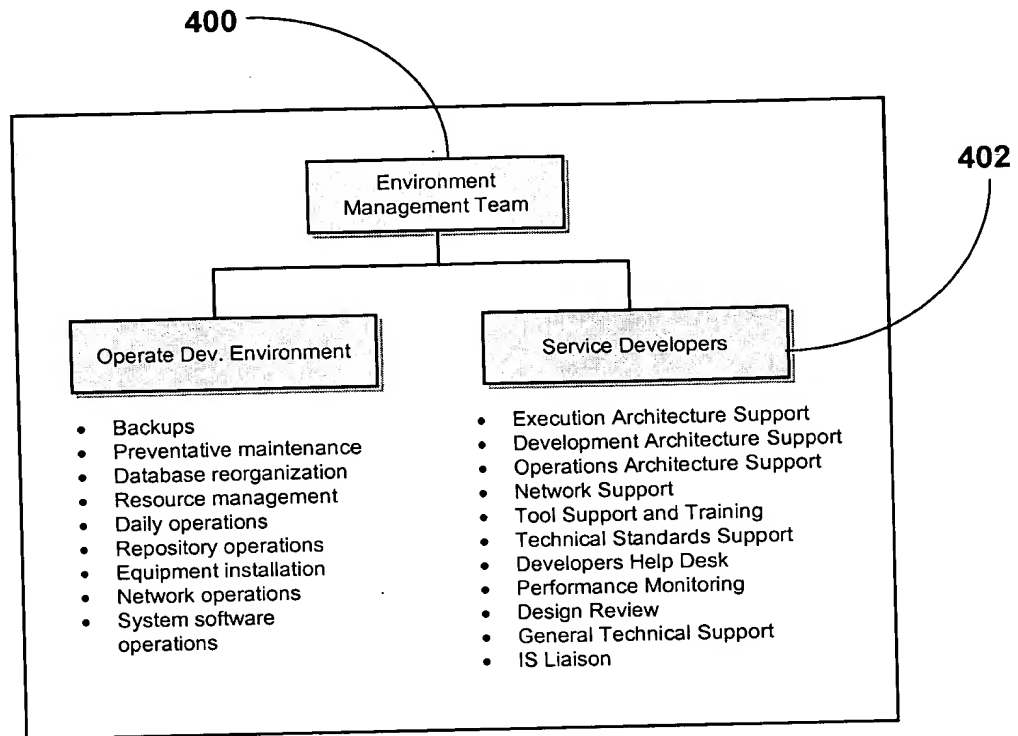
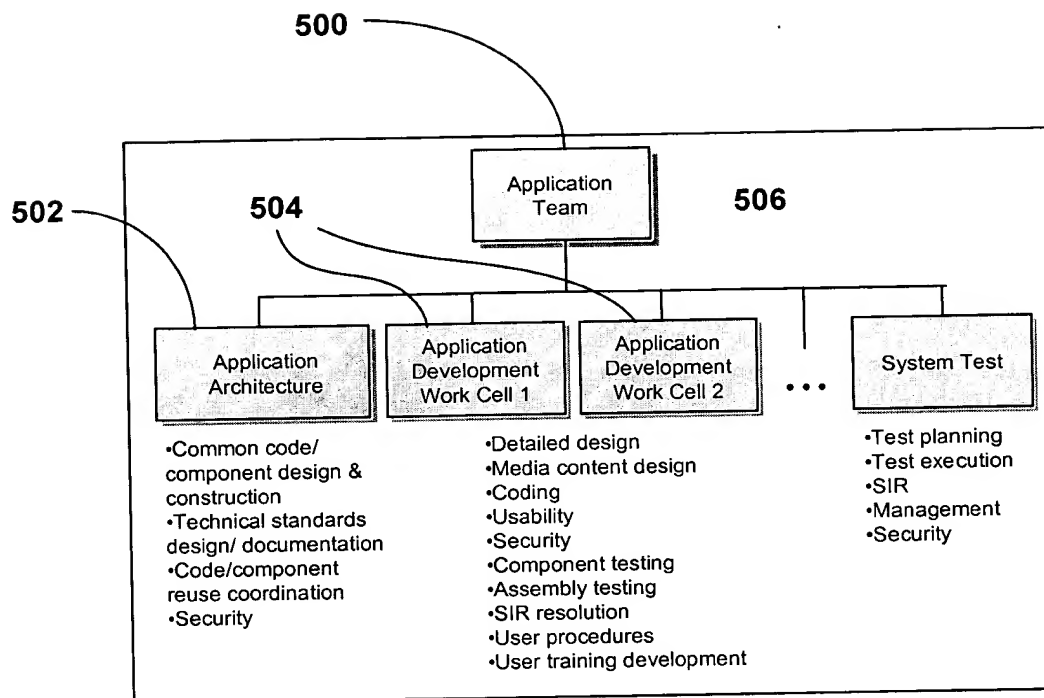
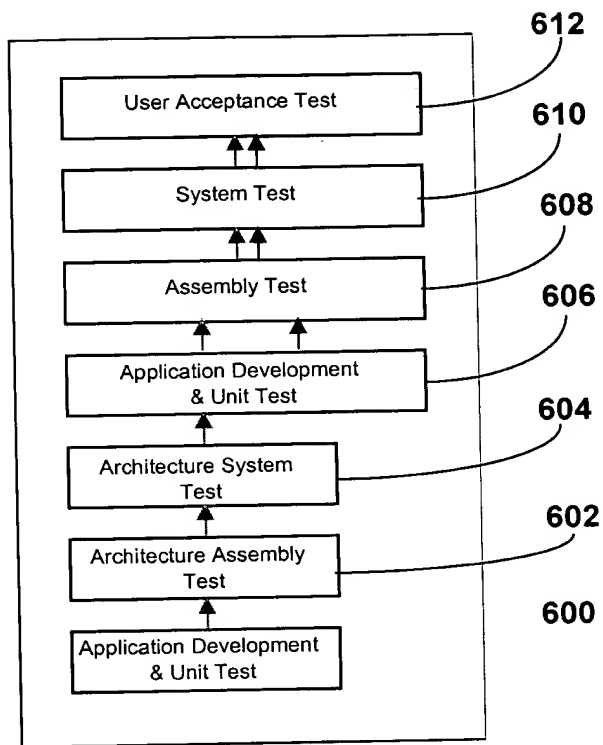


Figure 4



**Figure 5**





**Figure 6**

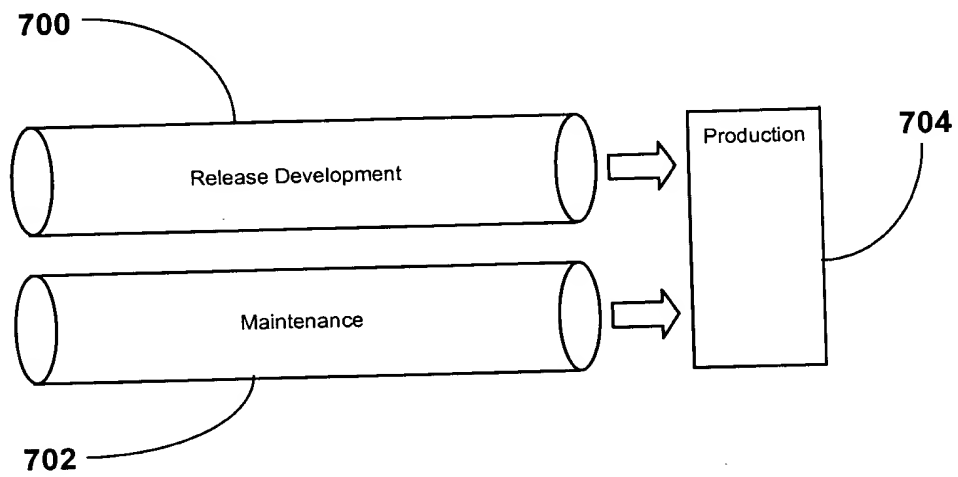
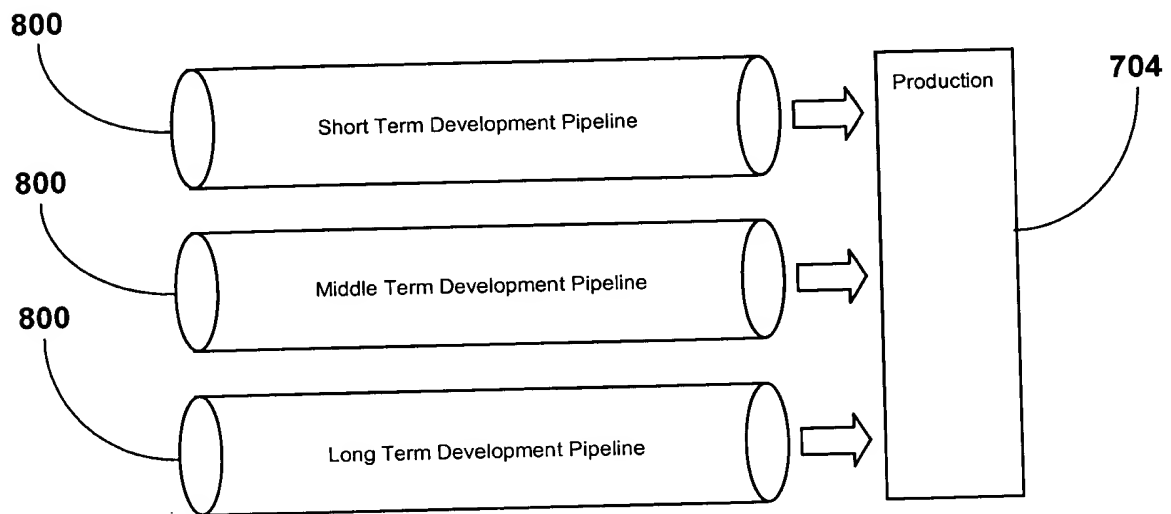


Figure 7



**Figure 8**

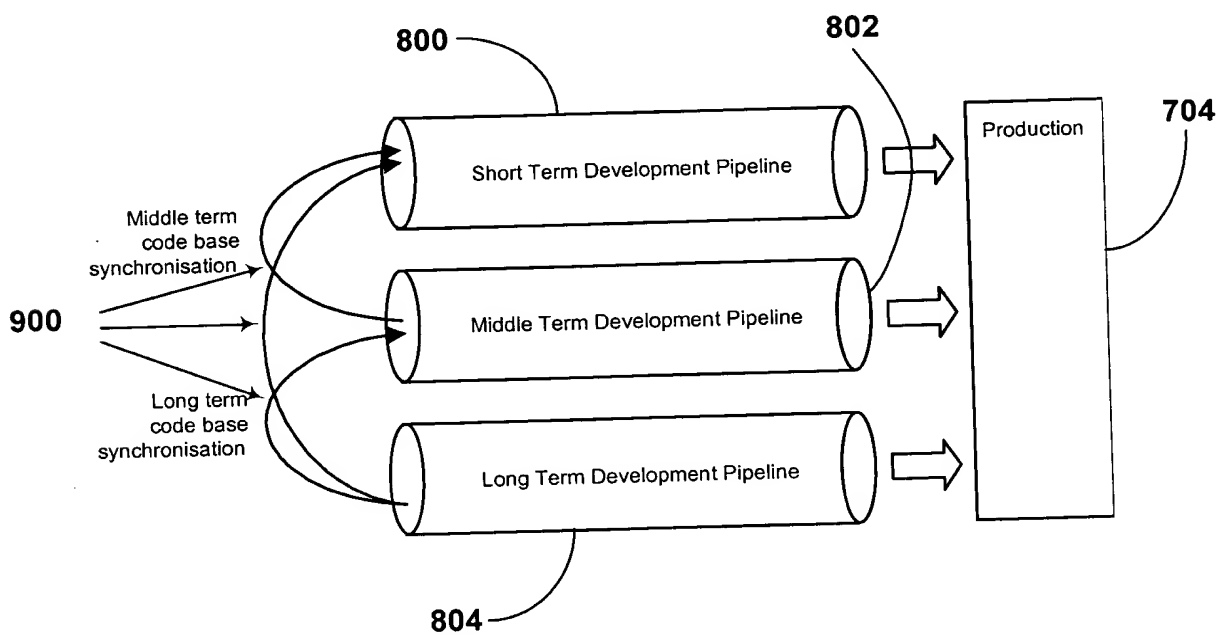


Figure 9

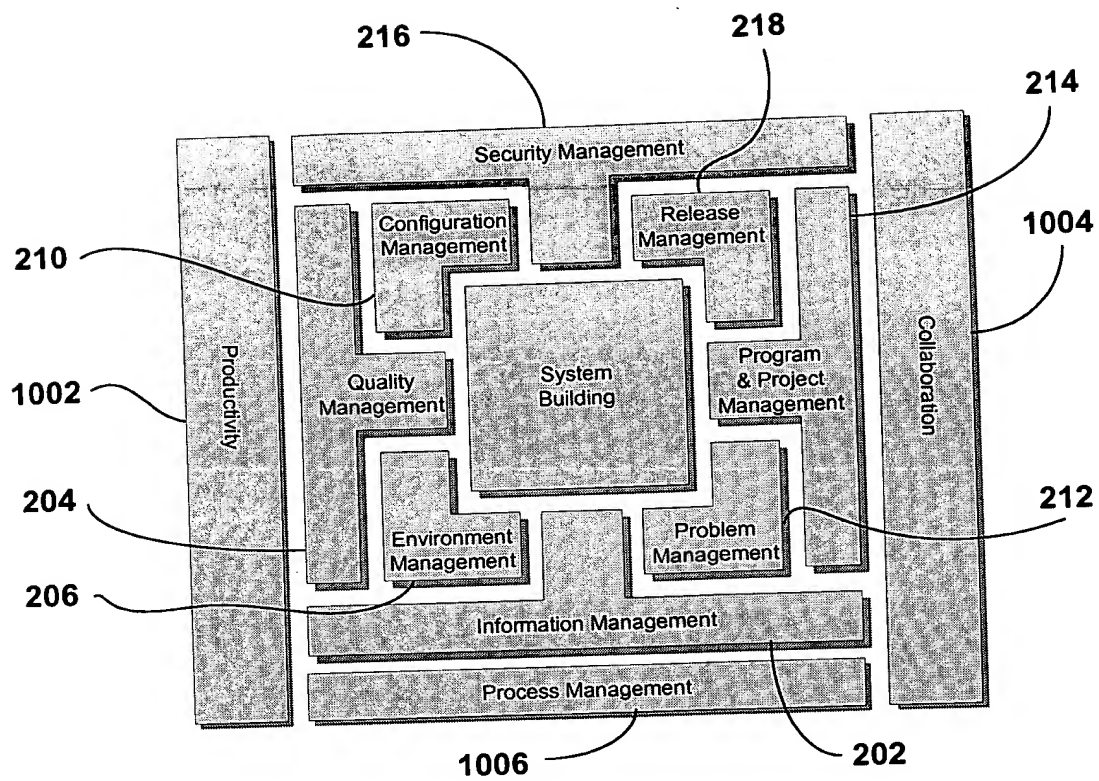
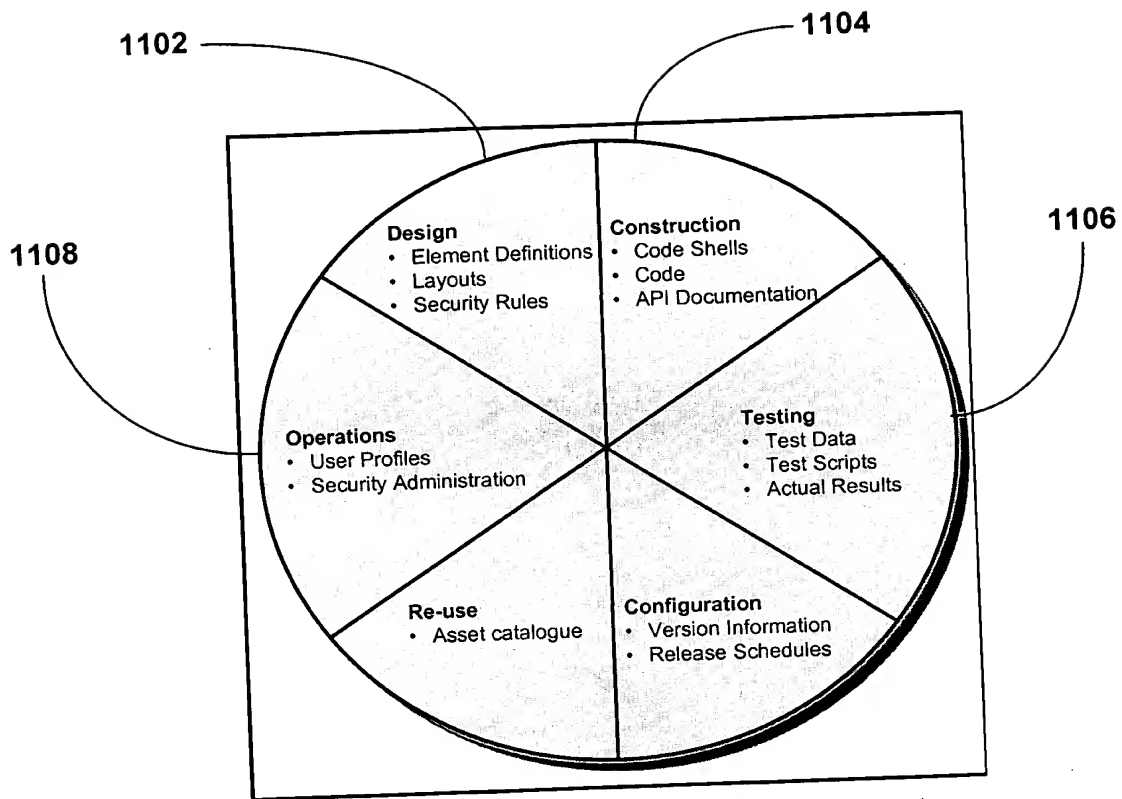
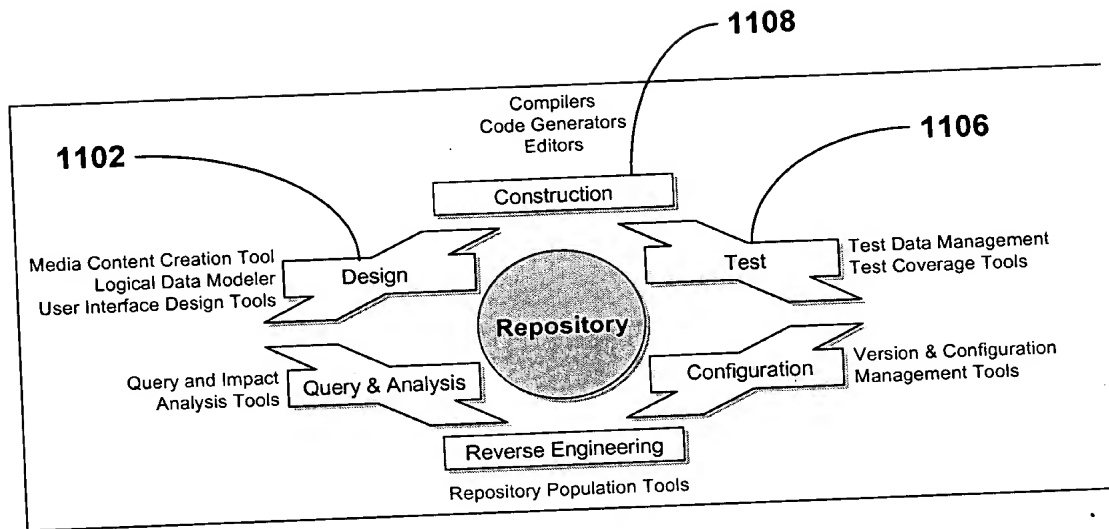


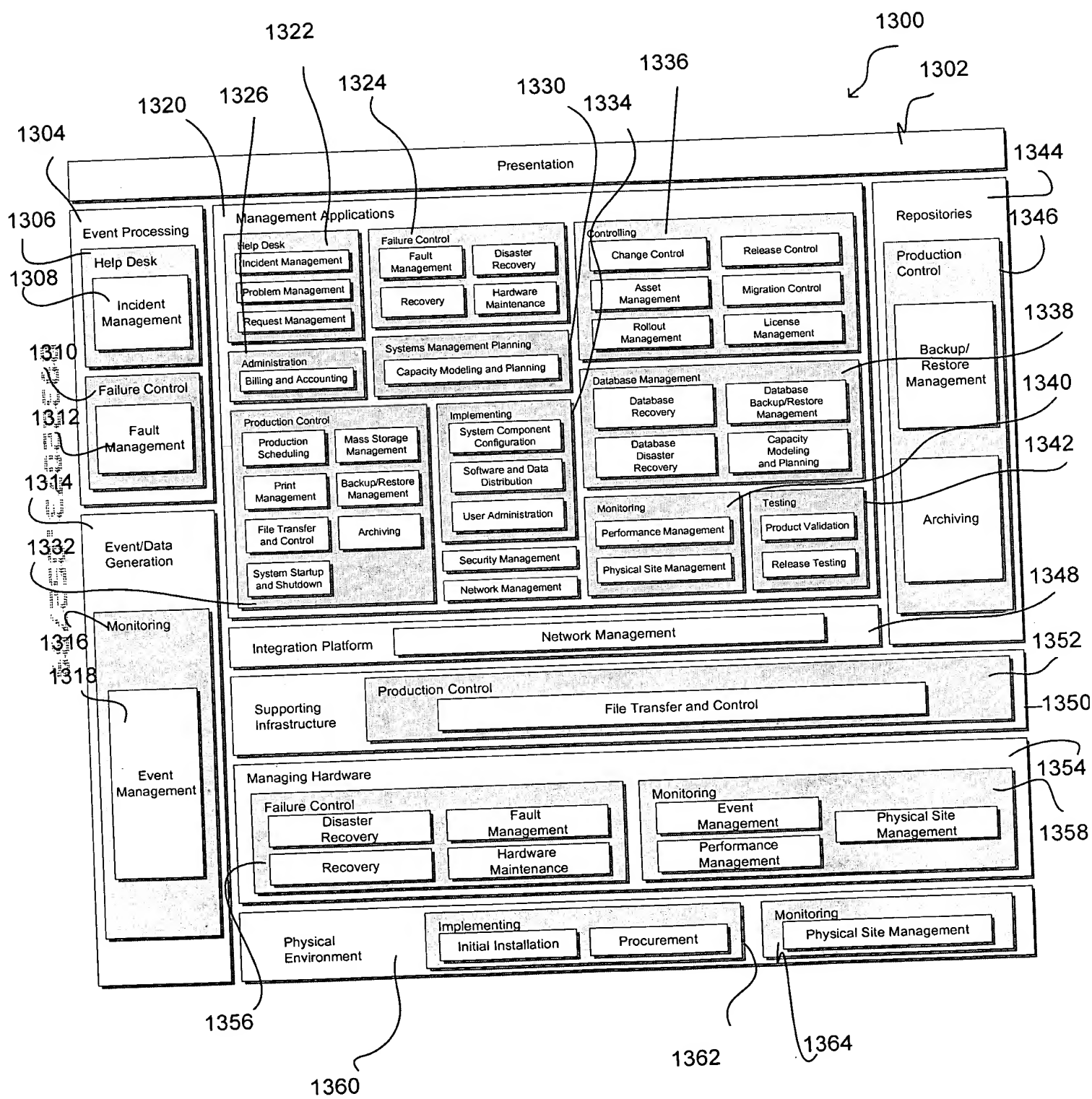
Figure 10



**Figure 11**



**Figure 12**





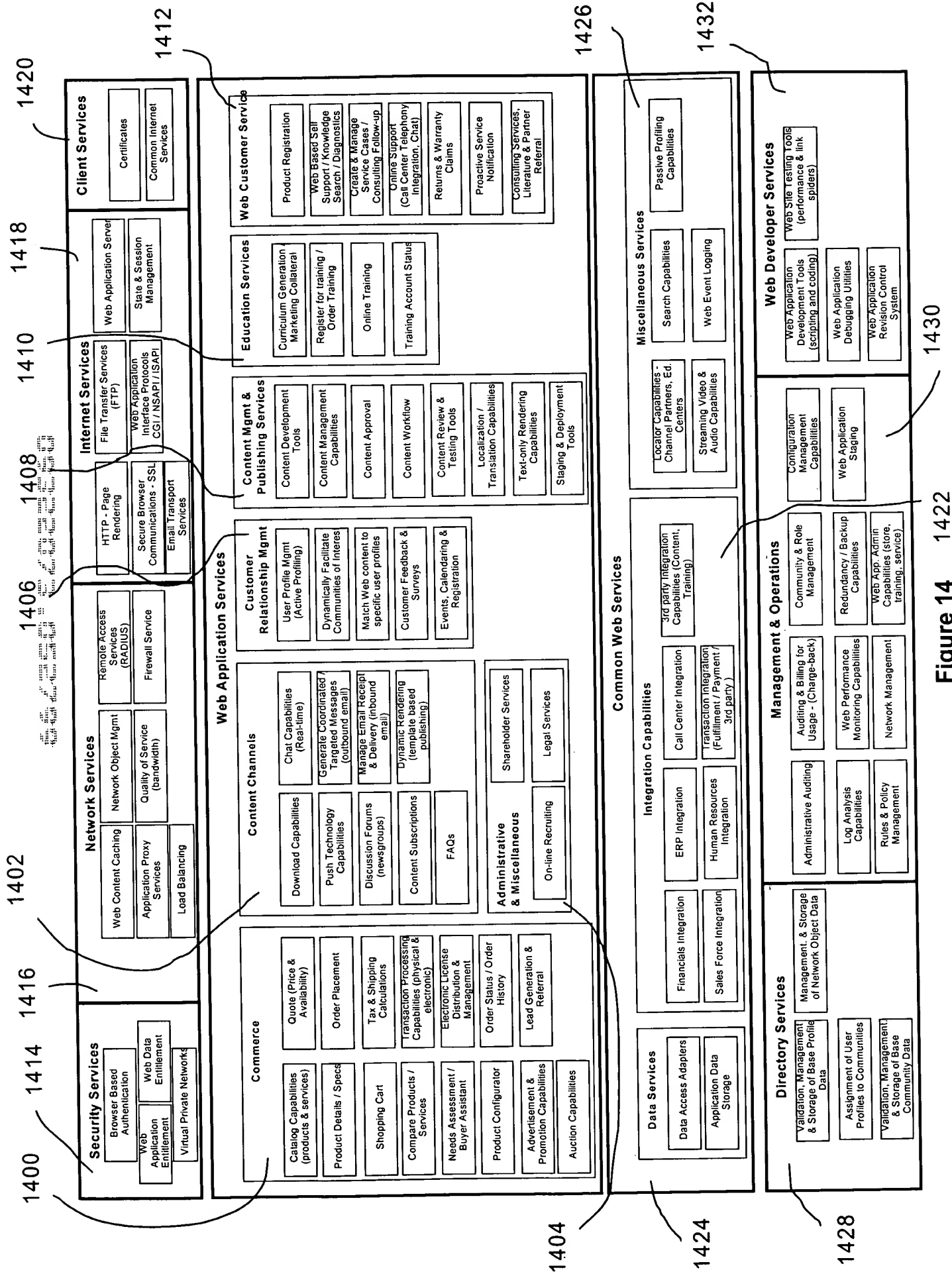
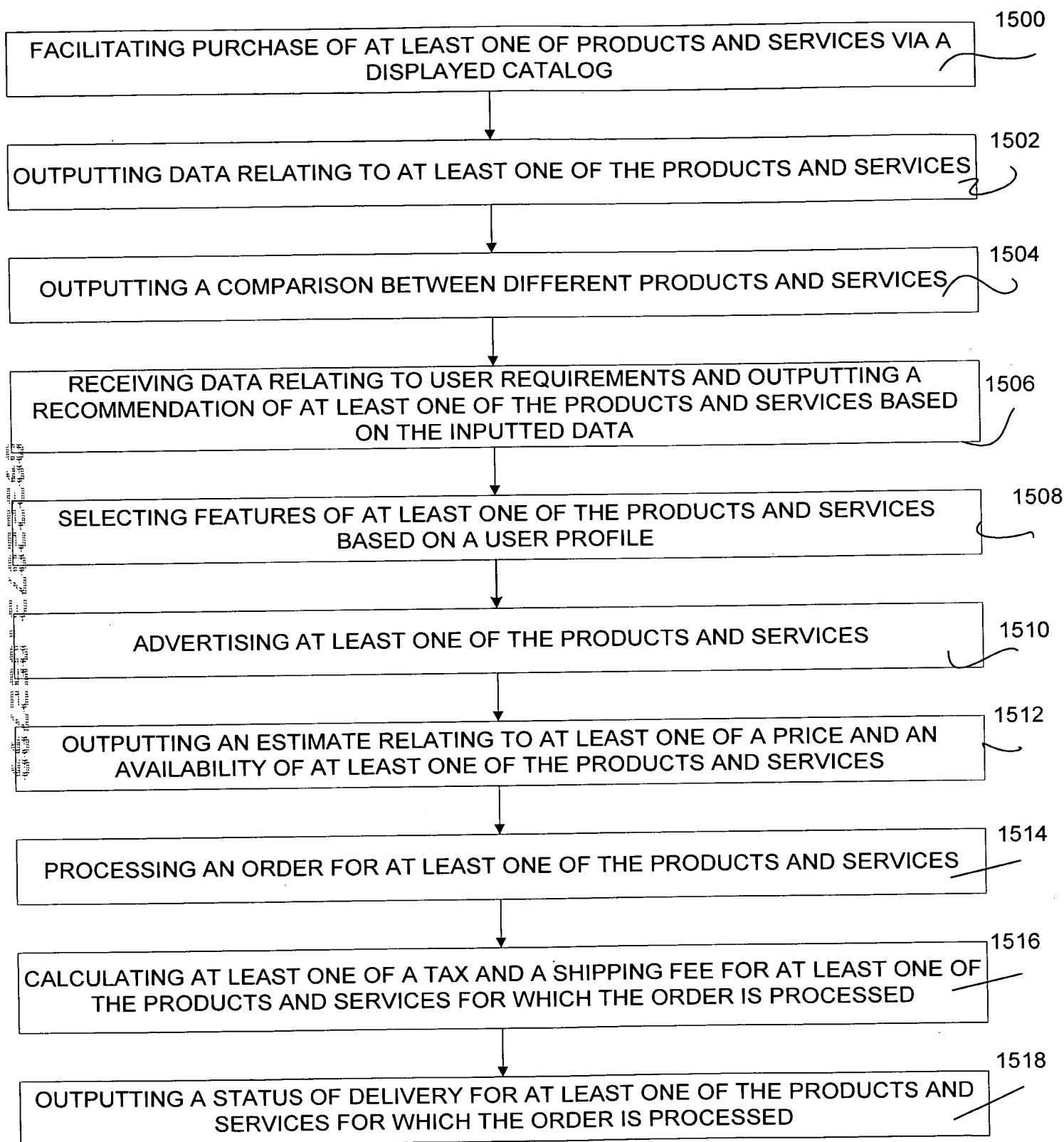


Figure 14 1422



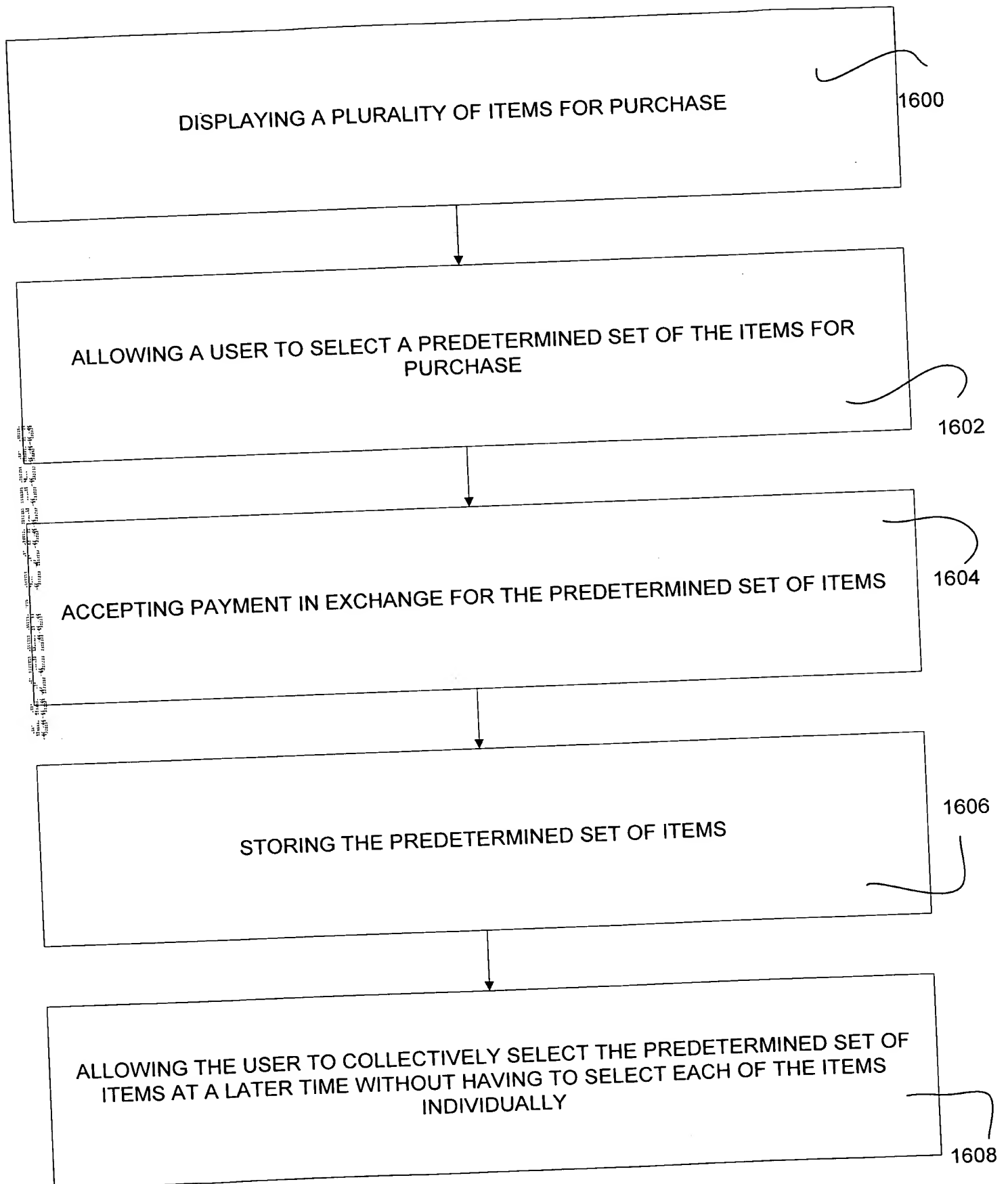
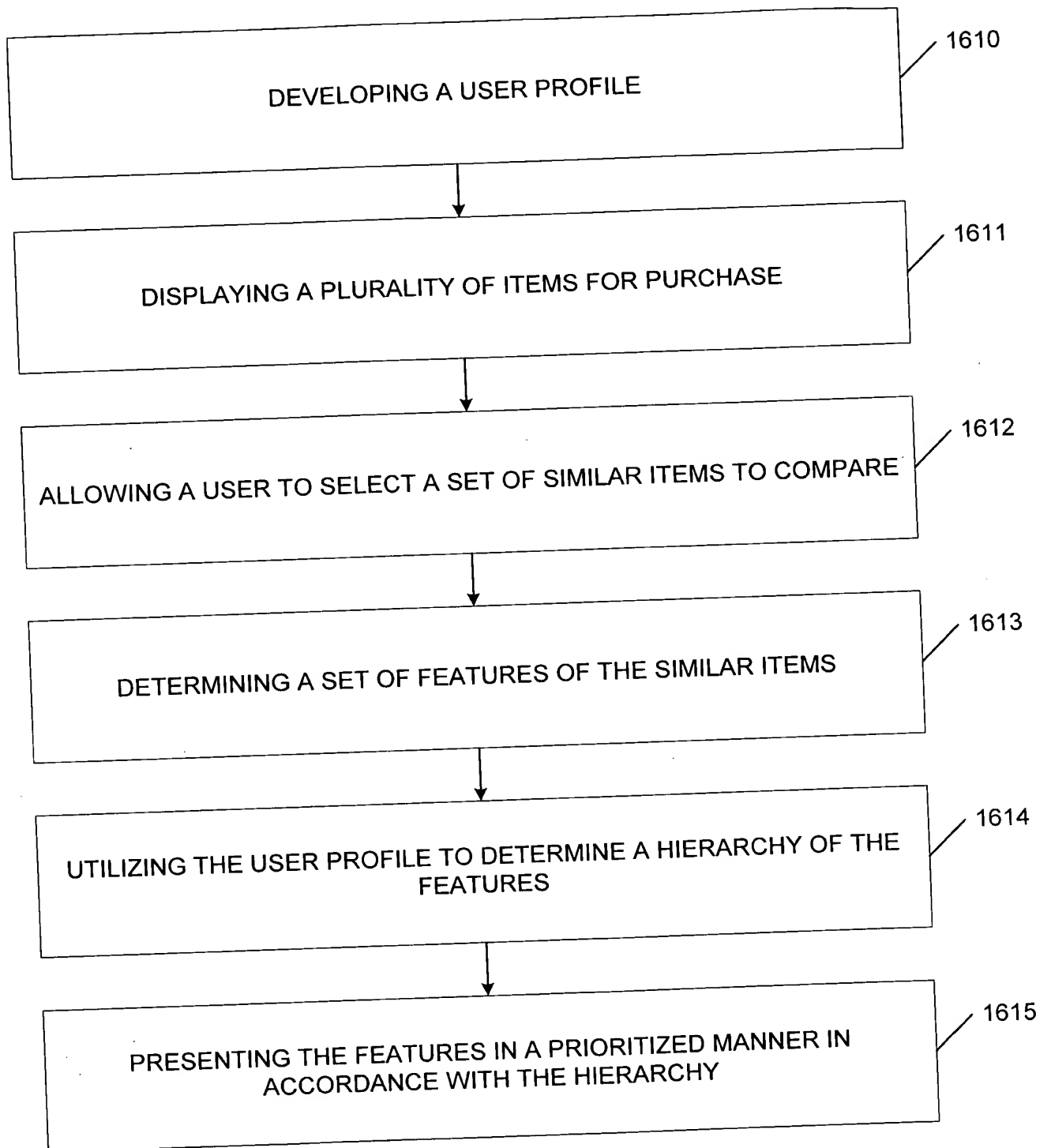


Figure 16



**Figure 16A**

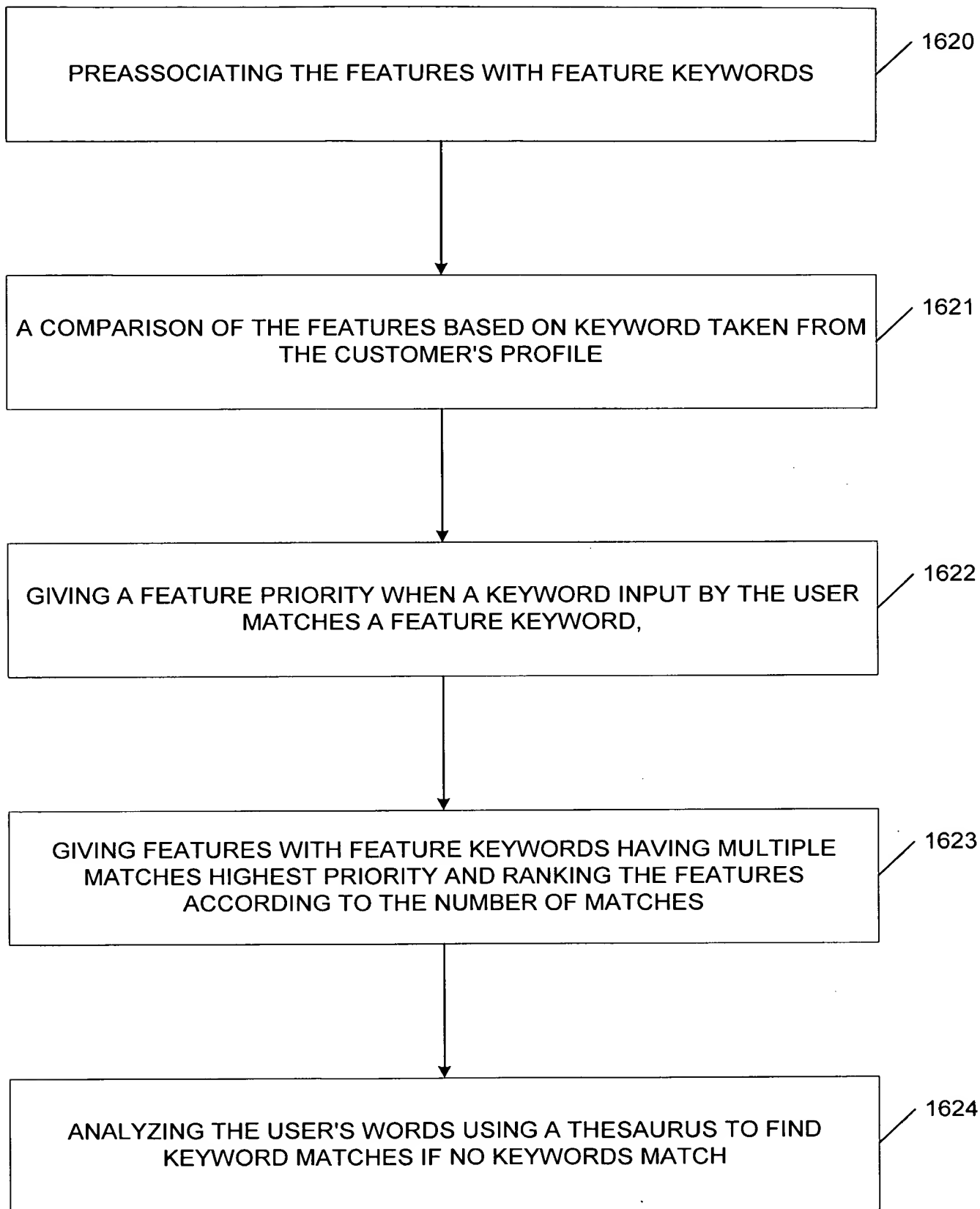


Figure 16B

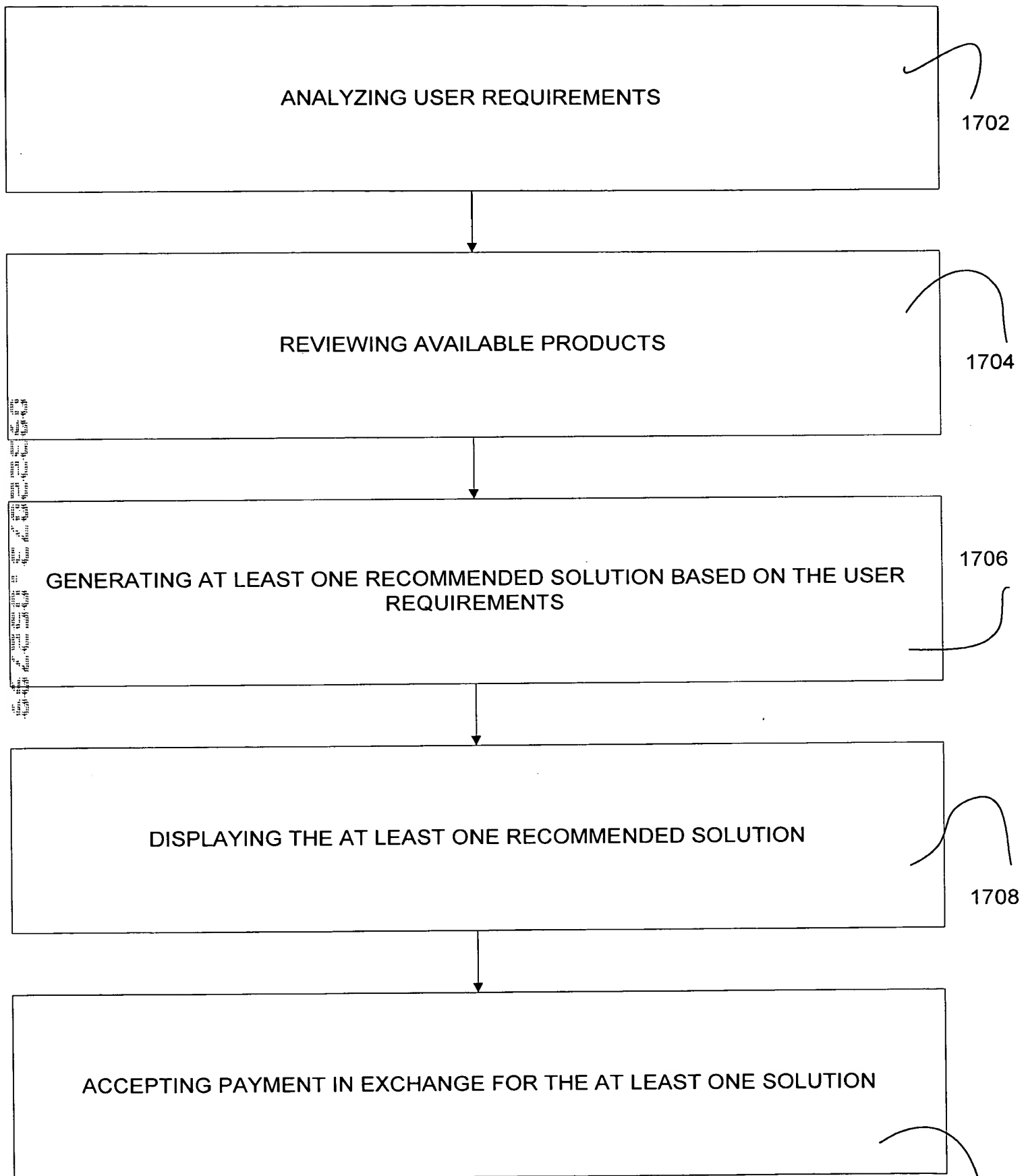


Figure 17

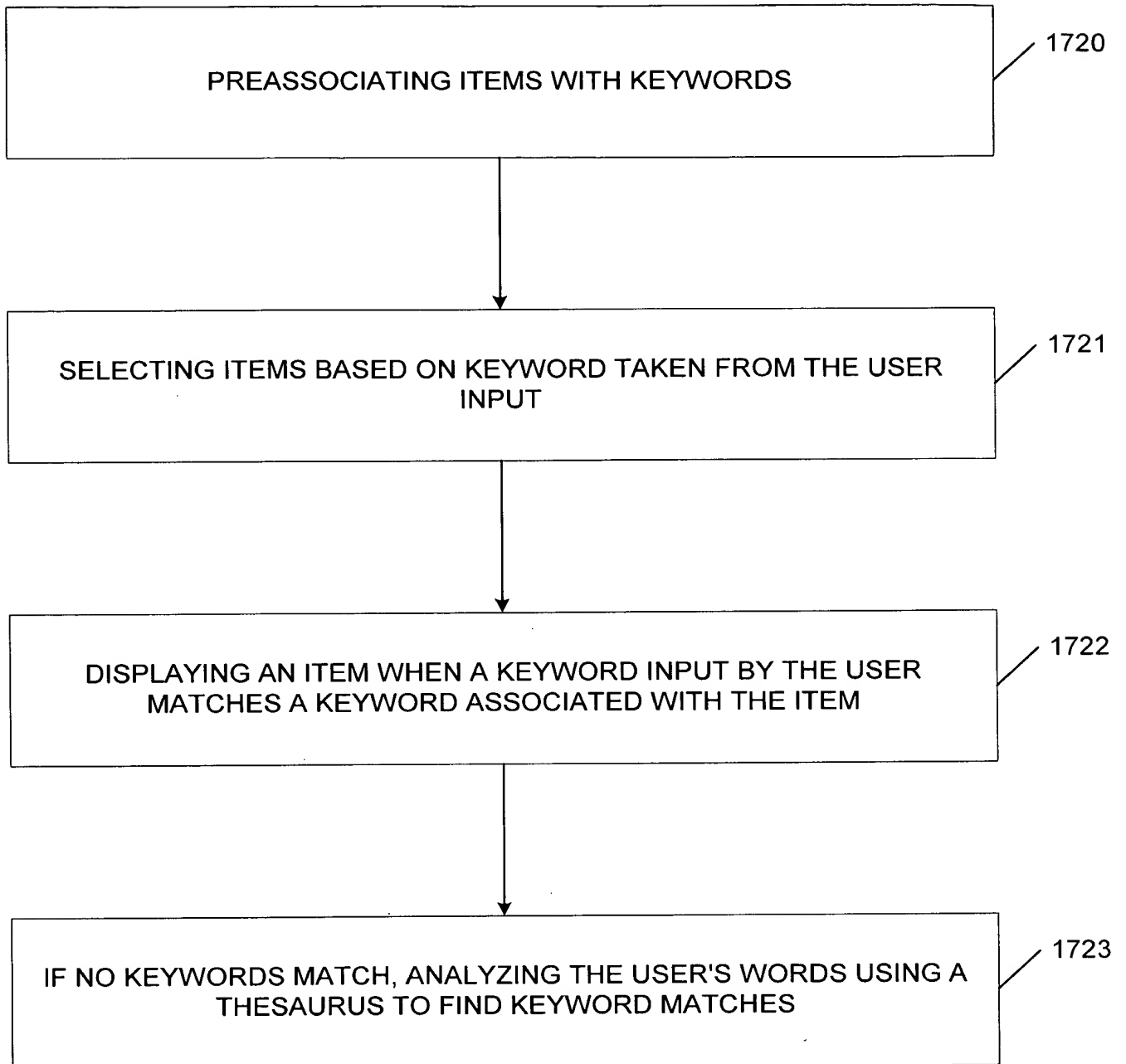


Figure 17A

1706

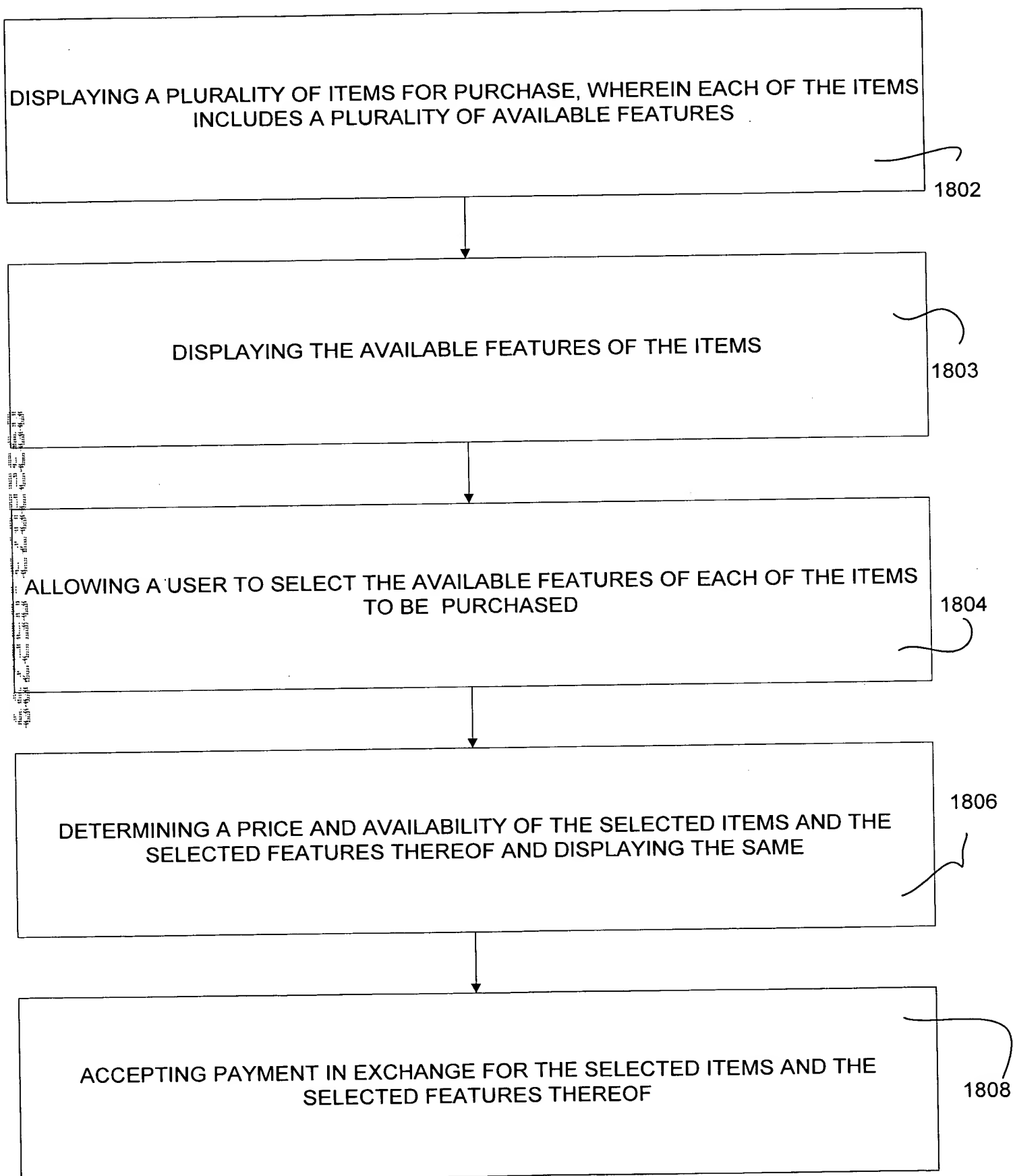


Figure 18



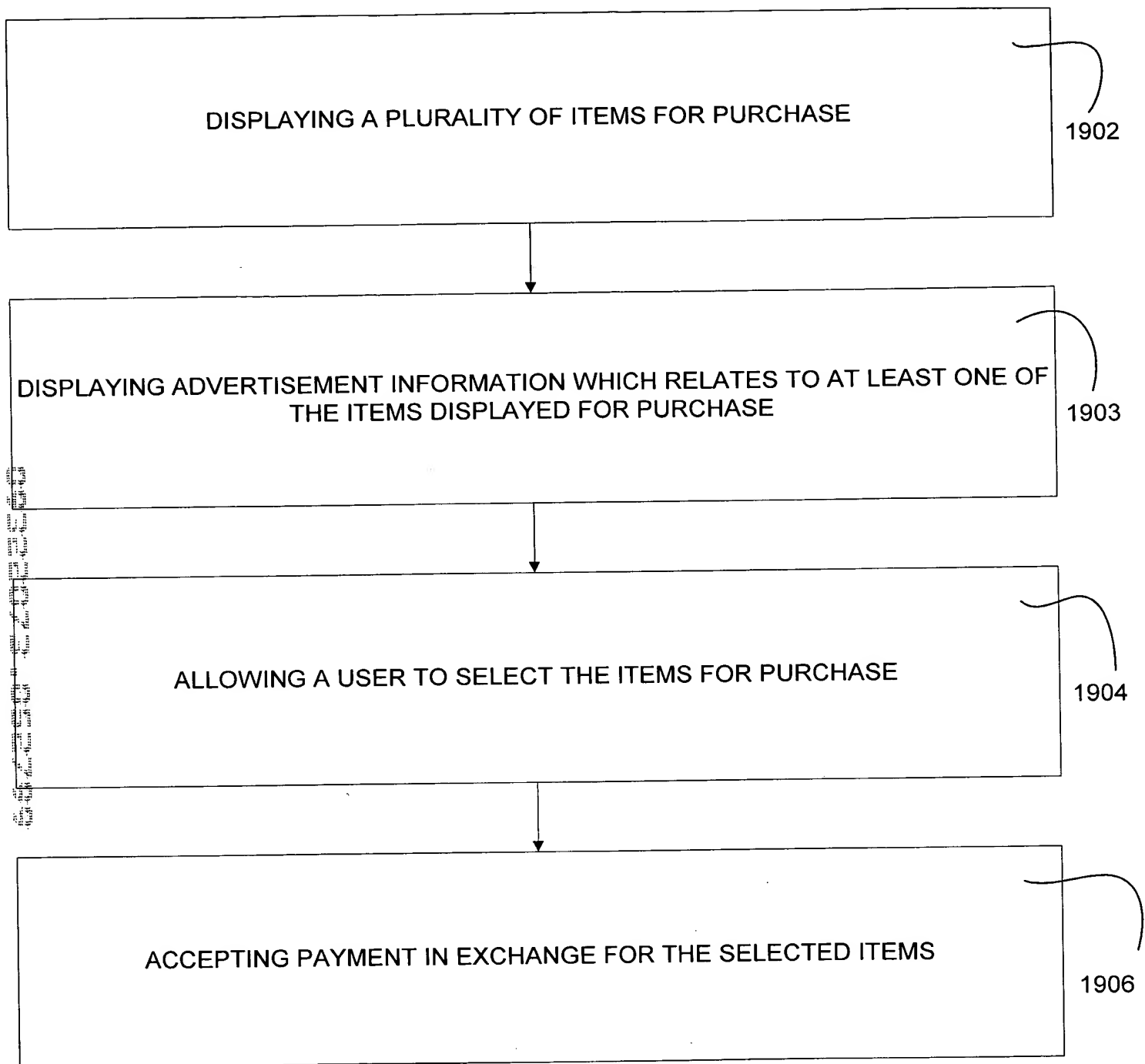


Figure 19

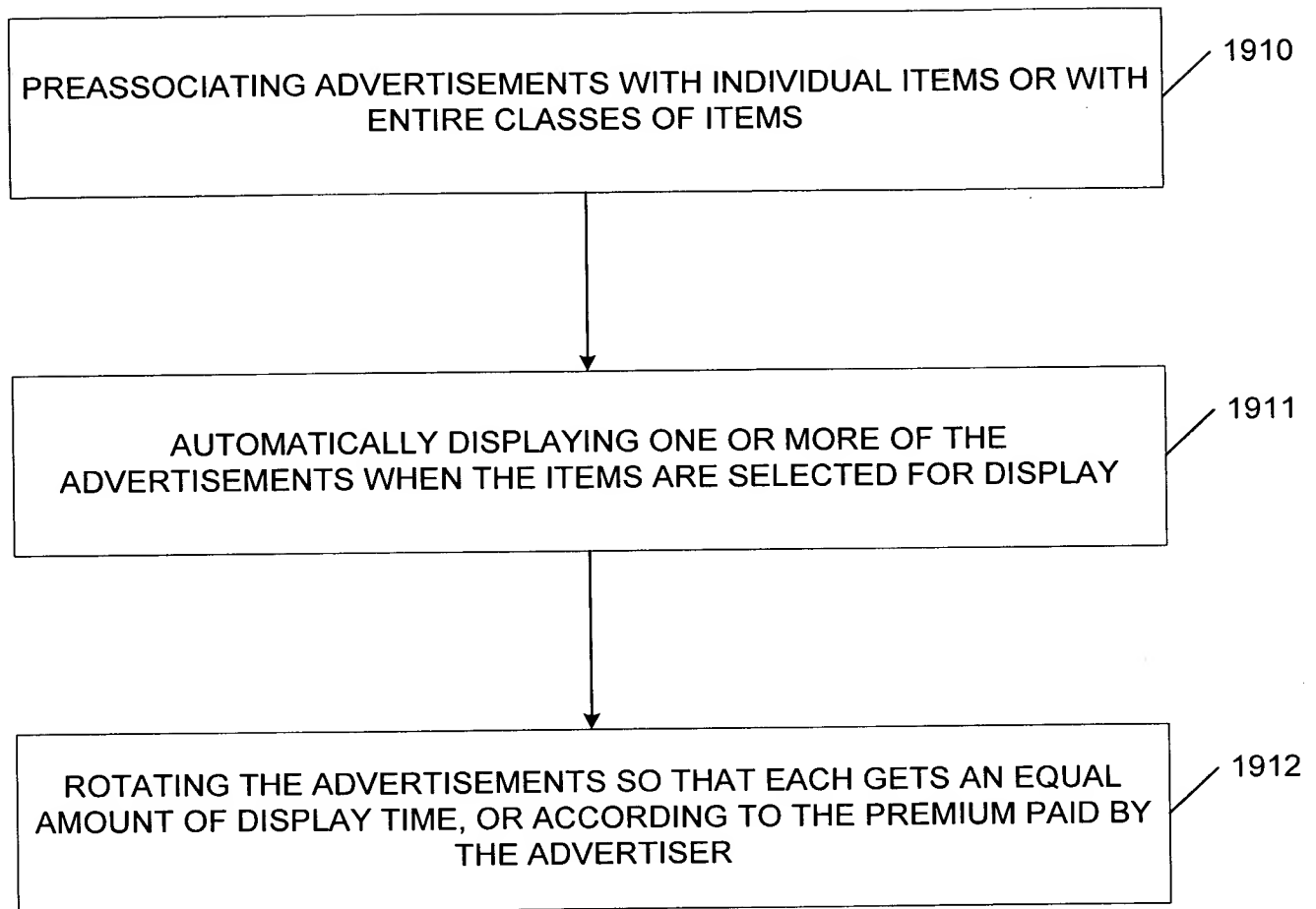


Figure 19A

1903

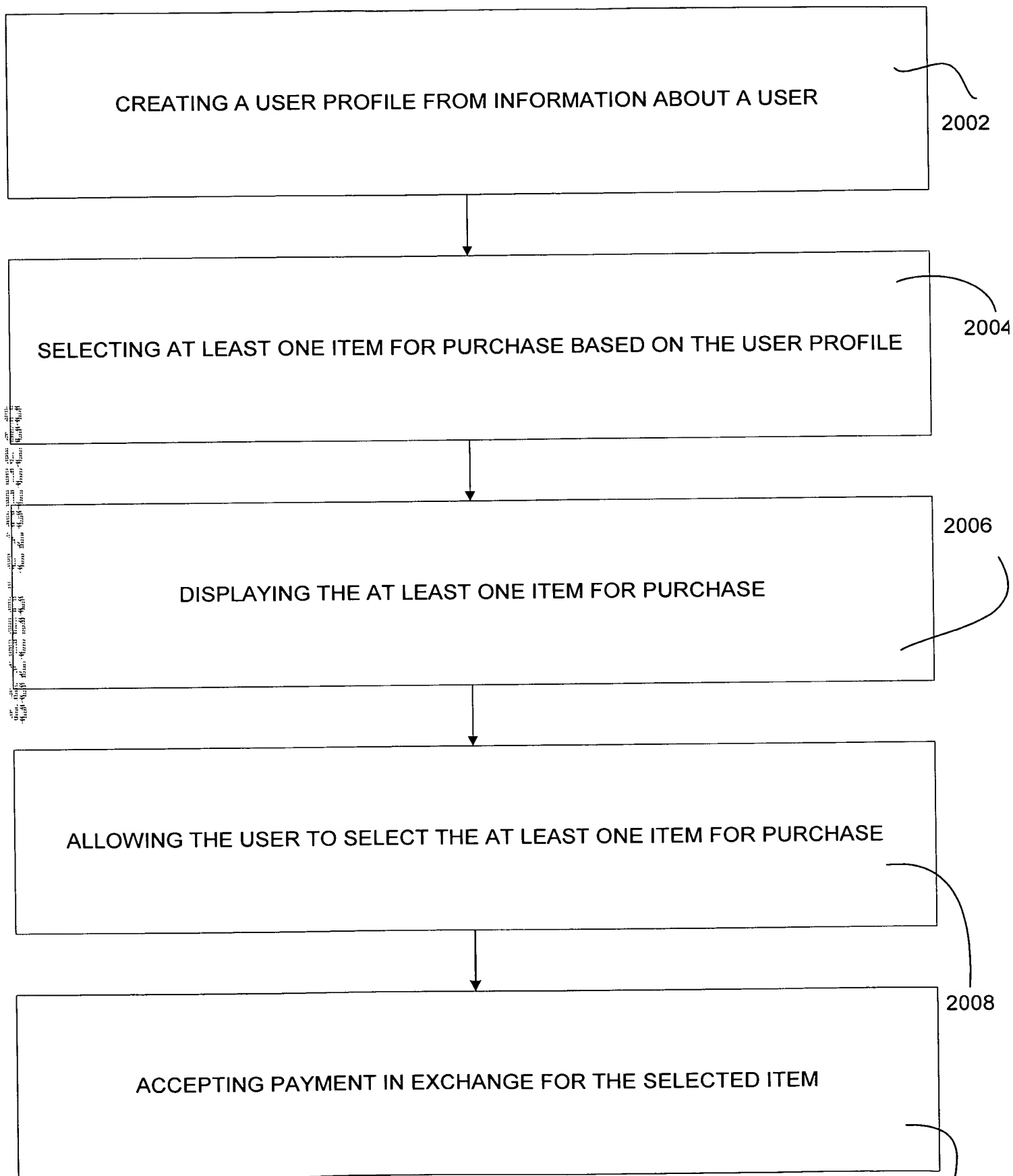
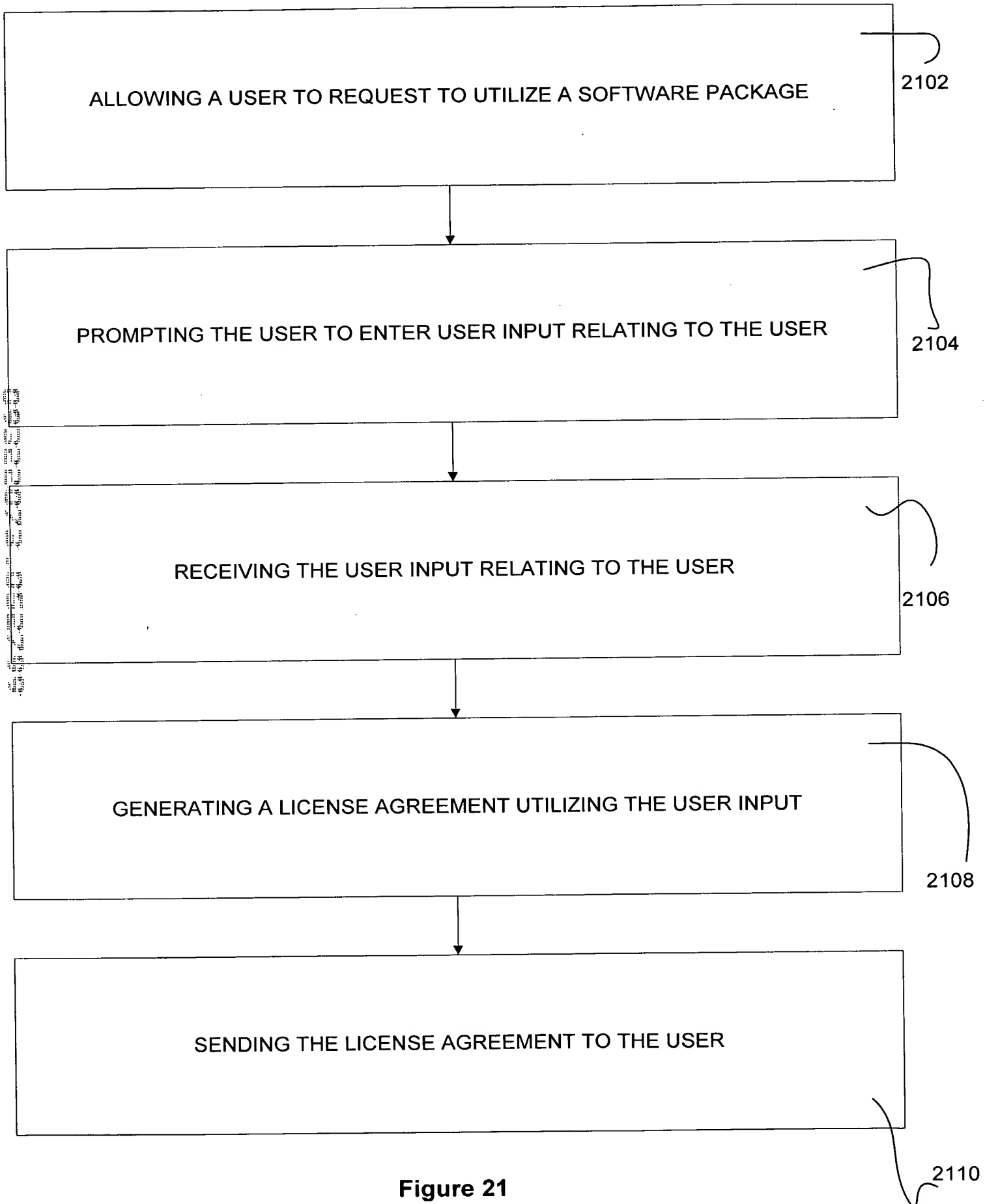


Figure 20



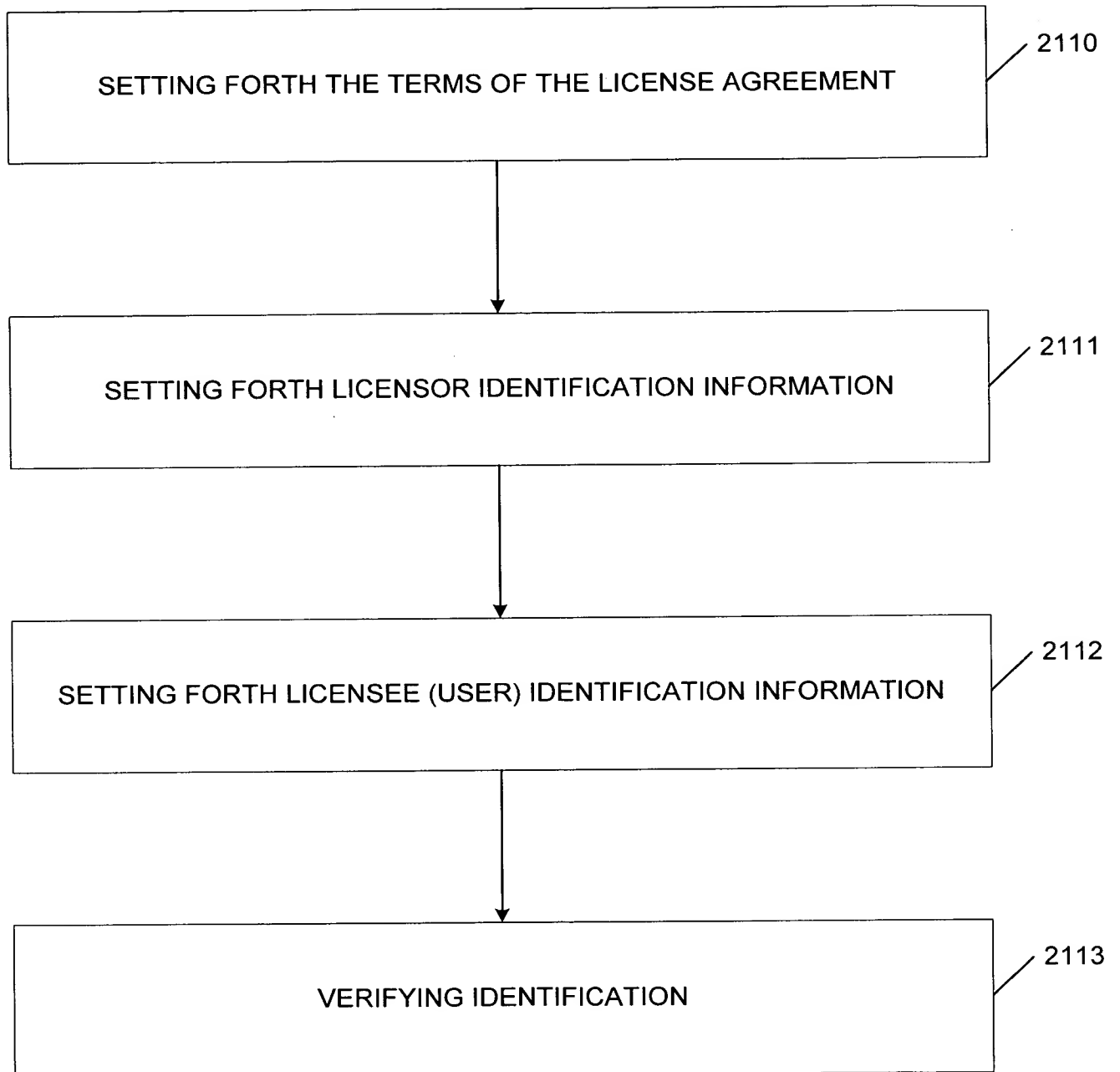
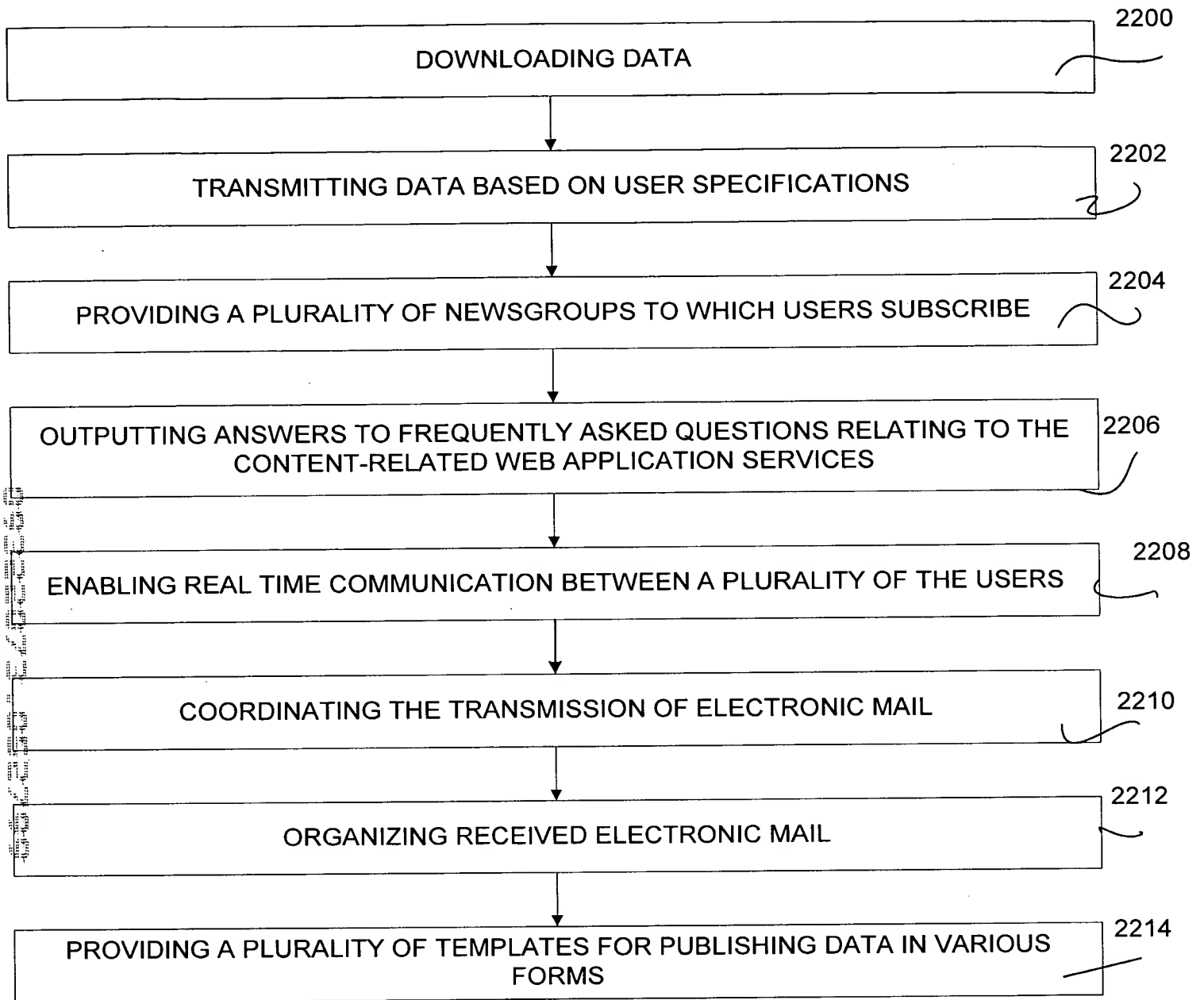


Figure 21A

2108



1402

Figure 22

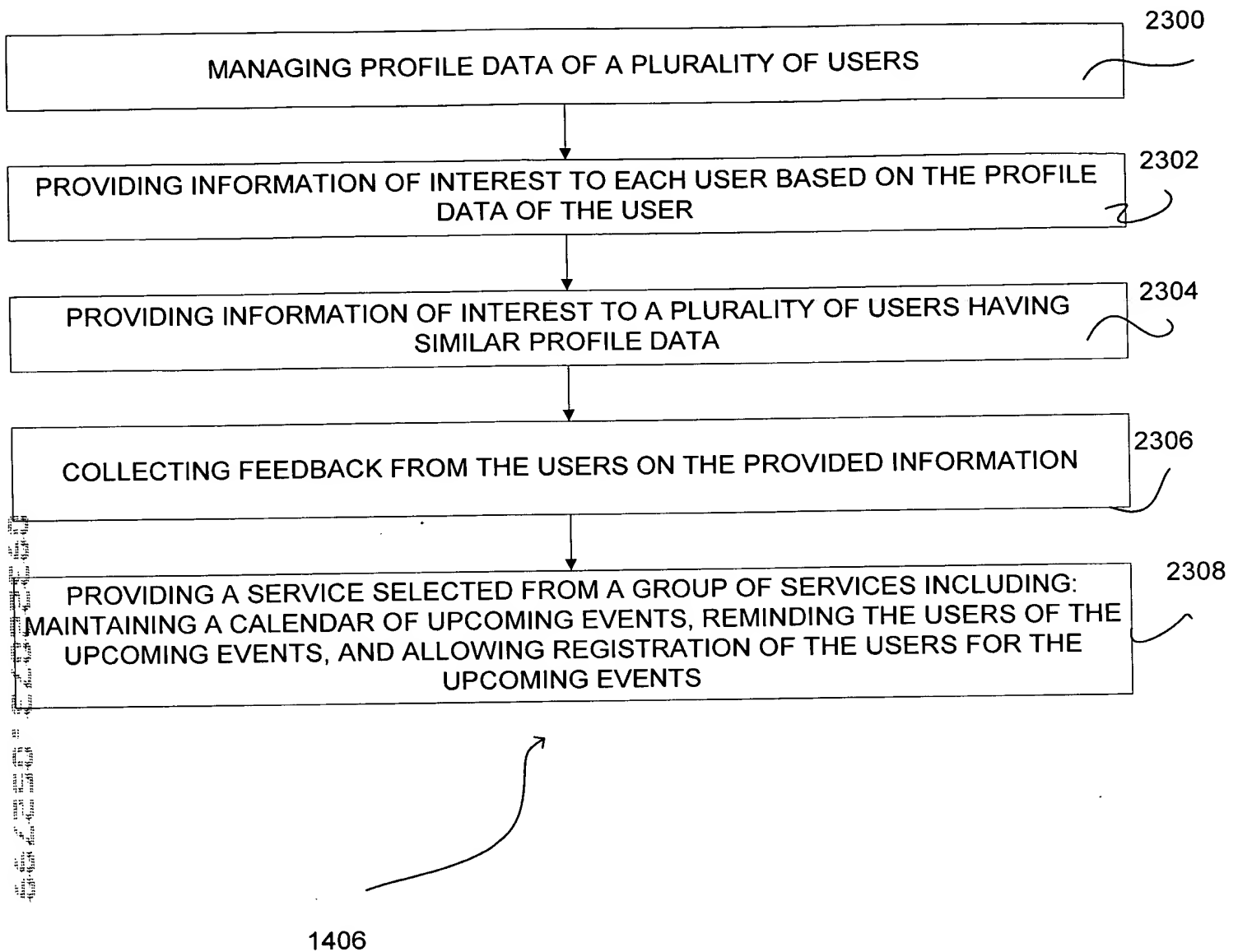
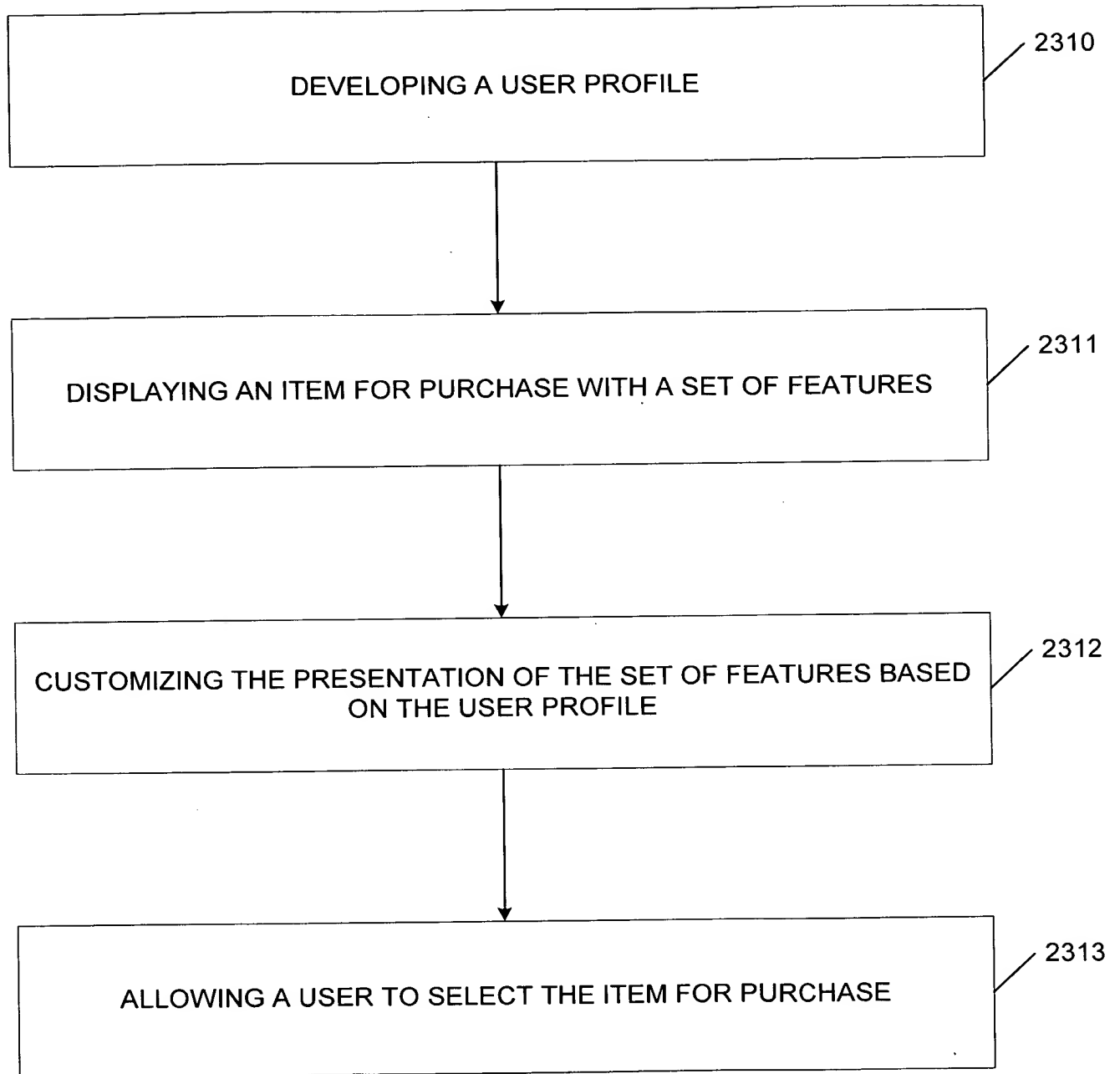


Figure 23



2300

Figure 23A



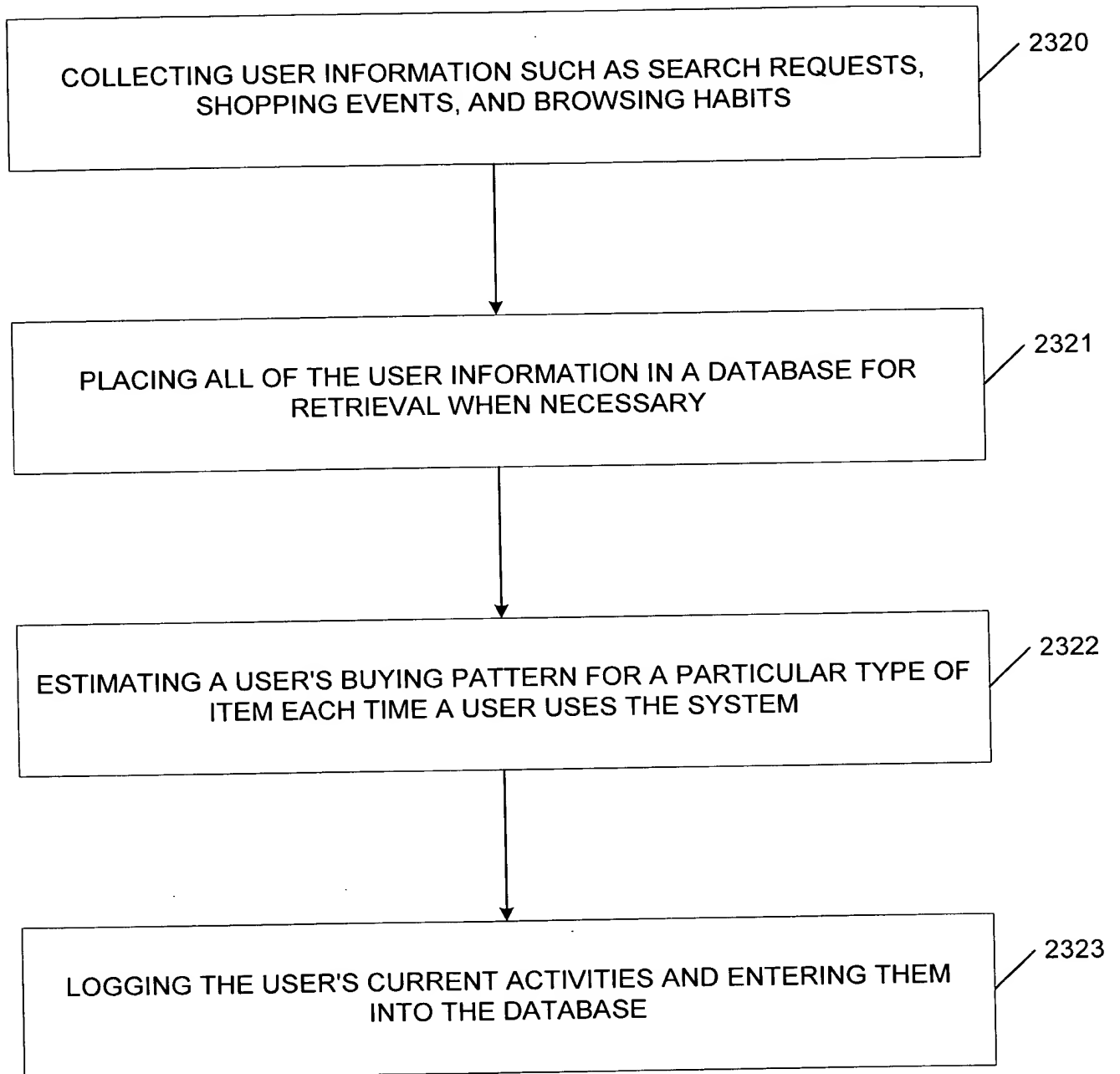


Figure 23B

2310

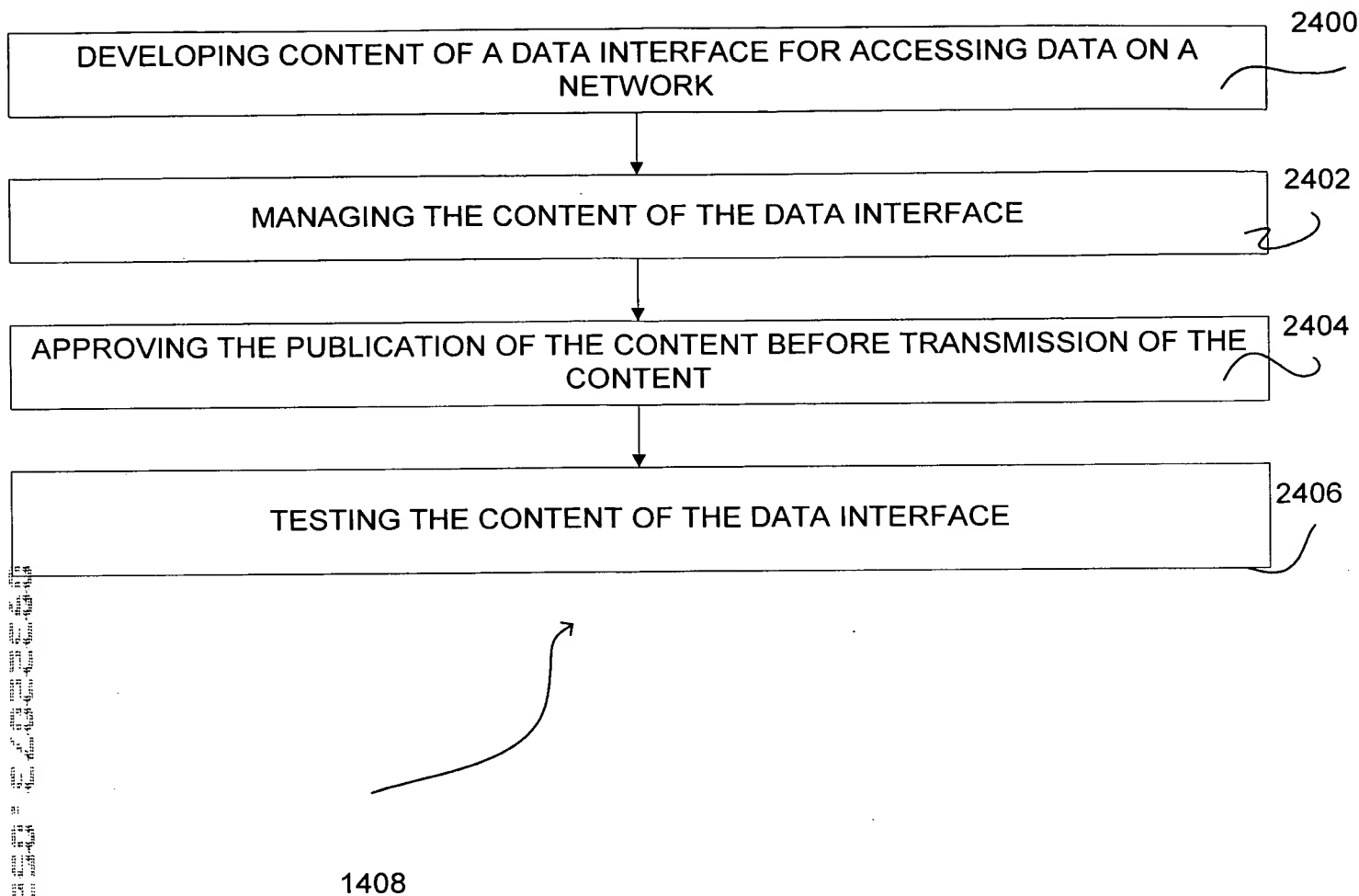


Figure 24

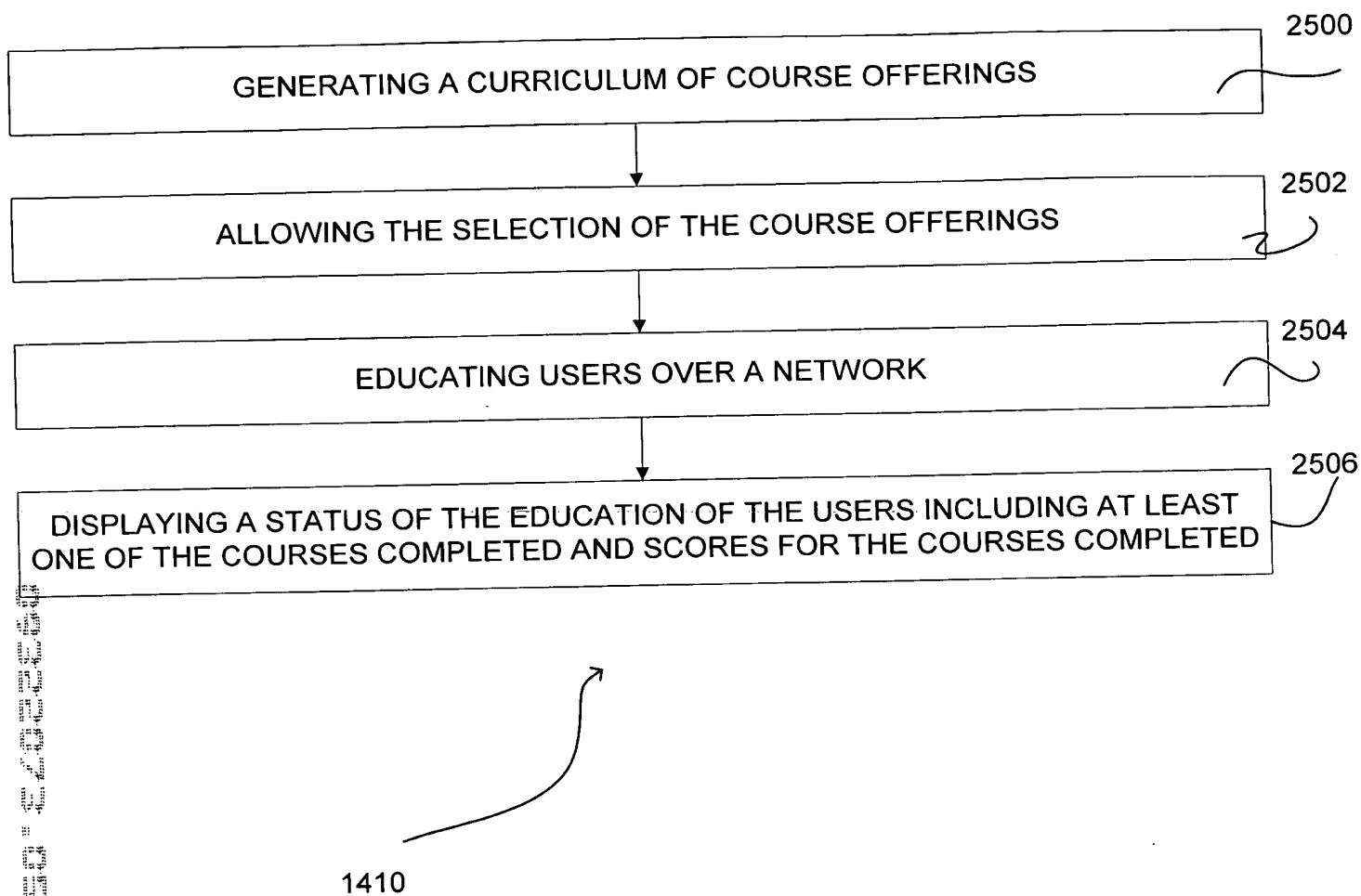


Figure 25

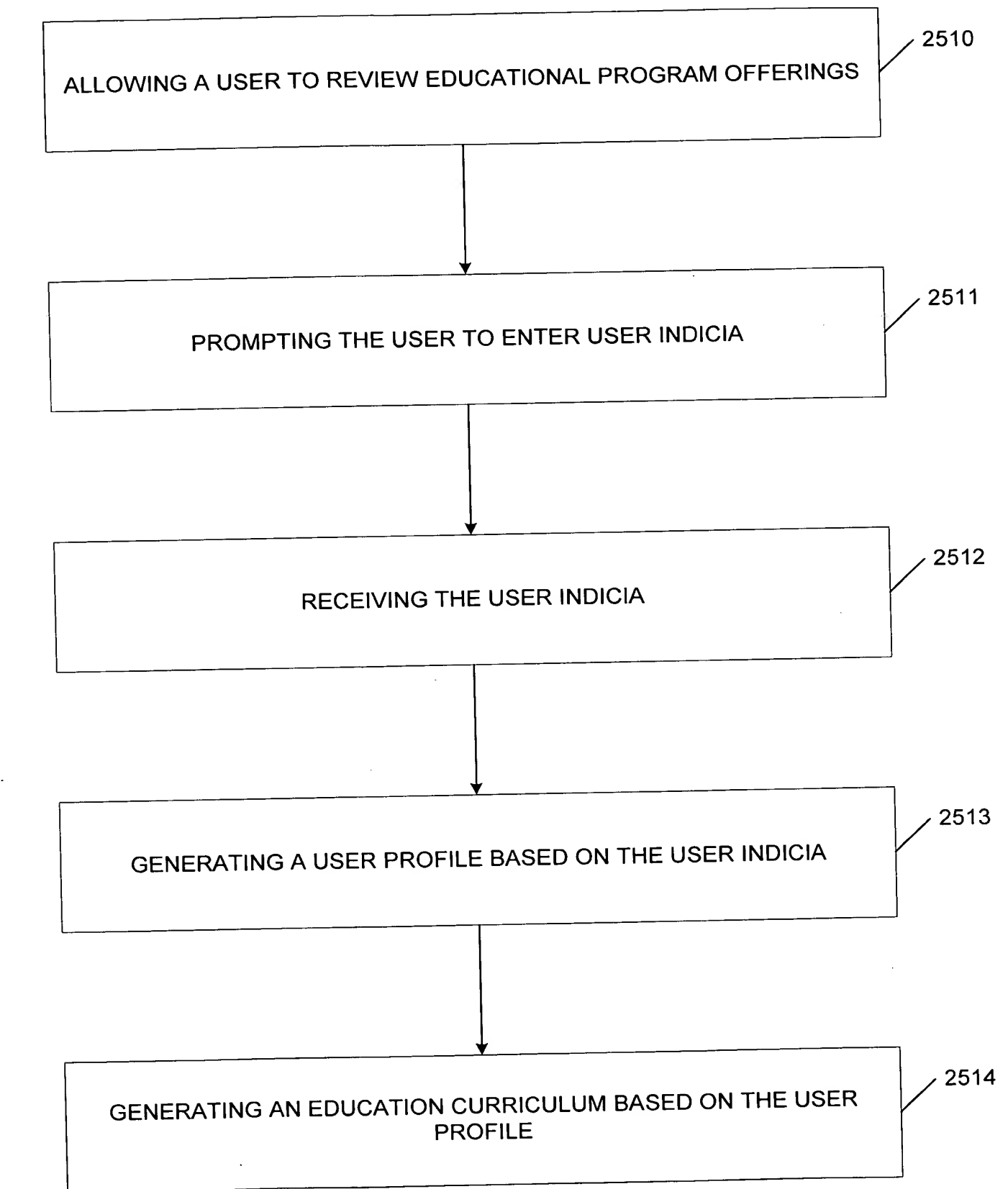


Figure 25A

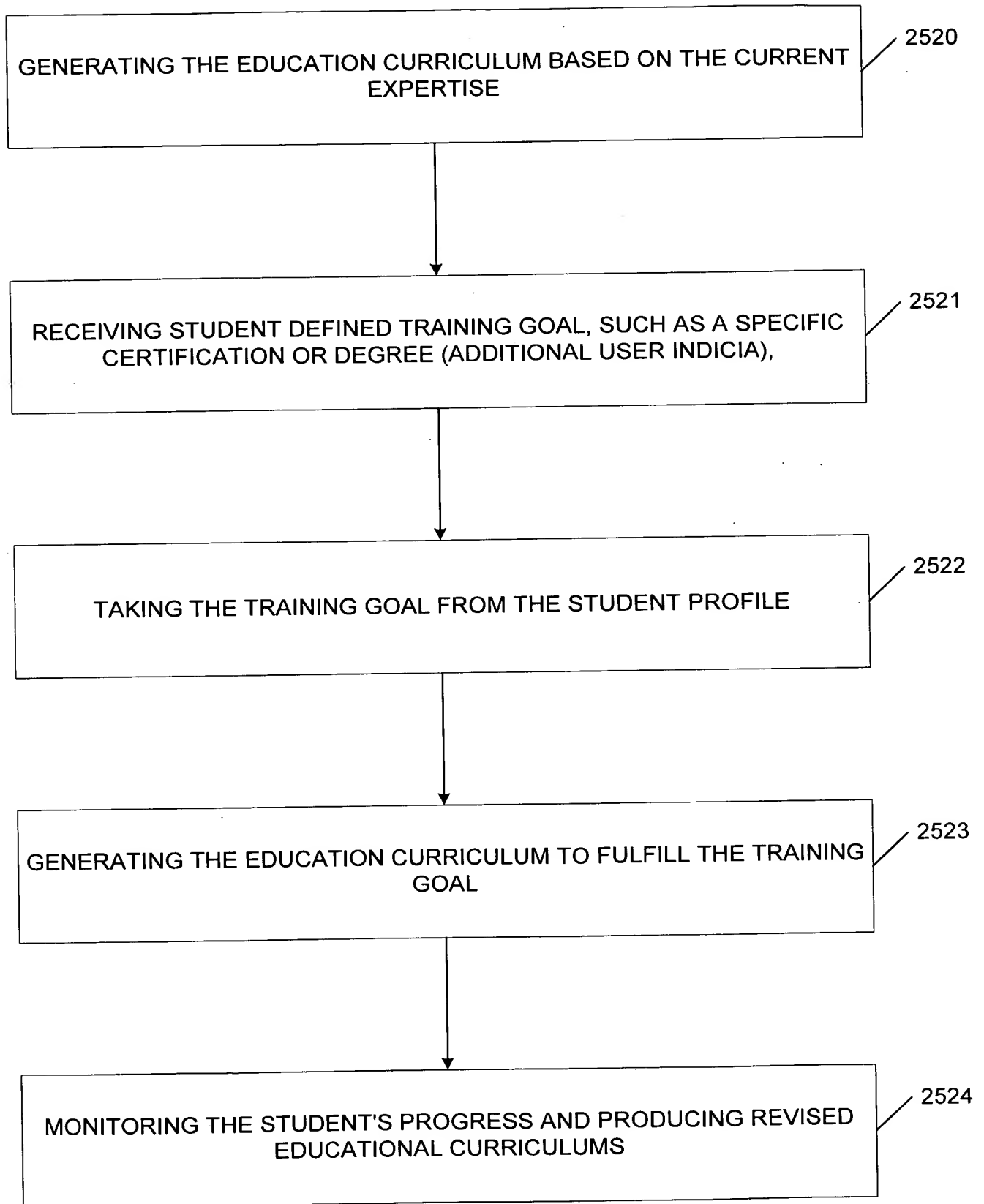


Figure 25B

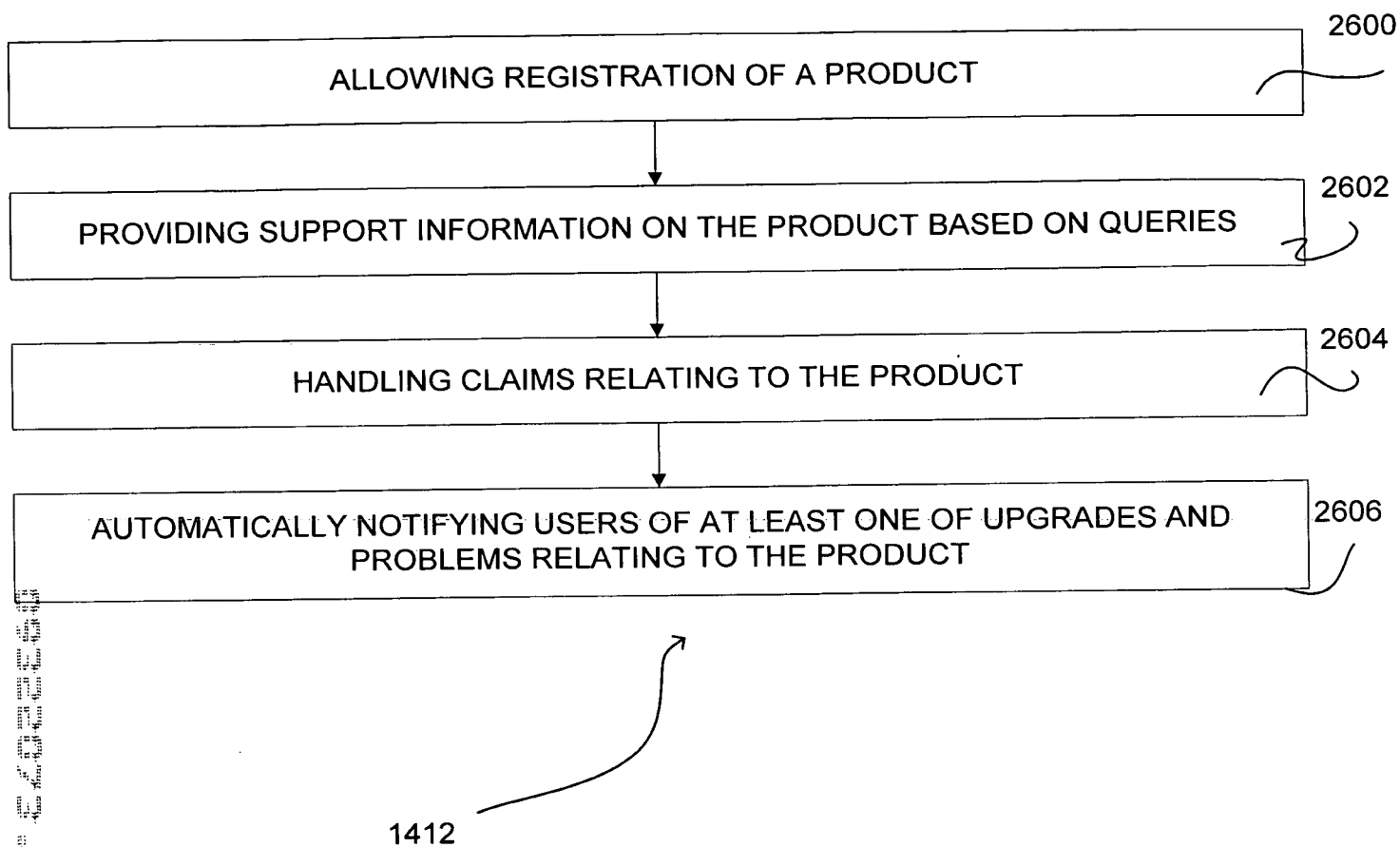
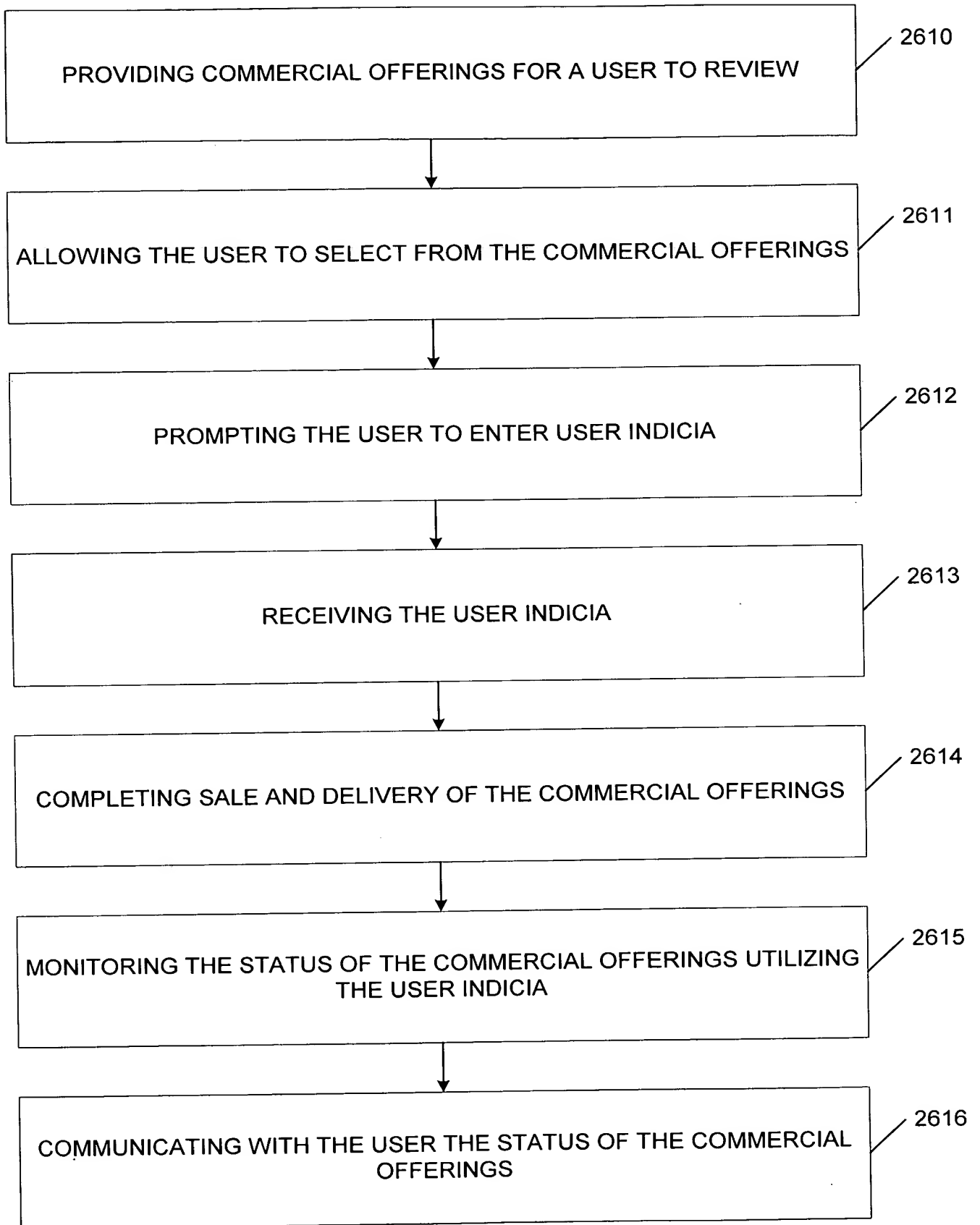


Figure 26



2606

Figure 26A

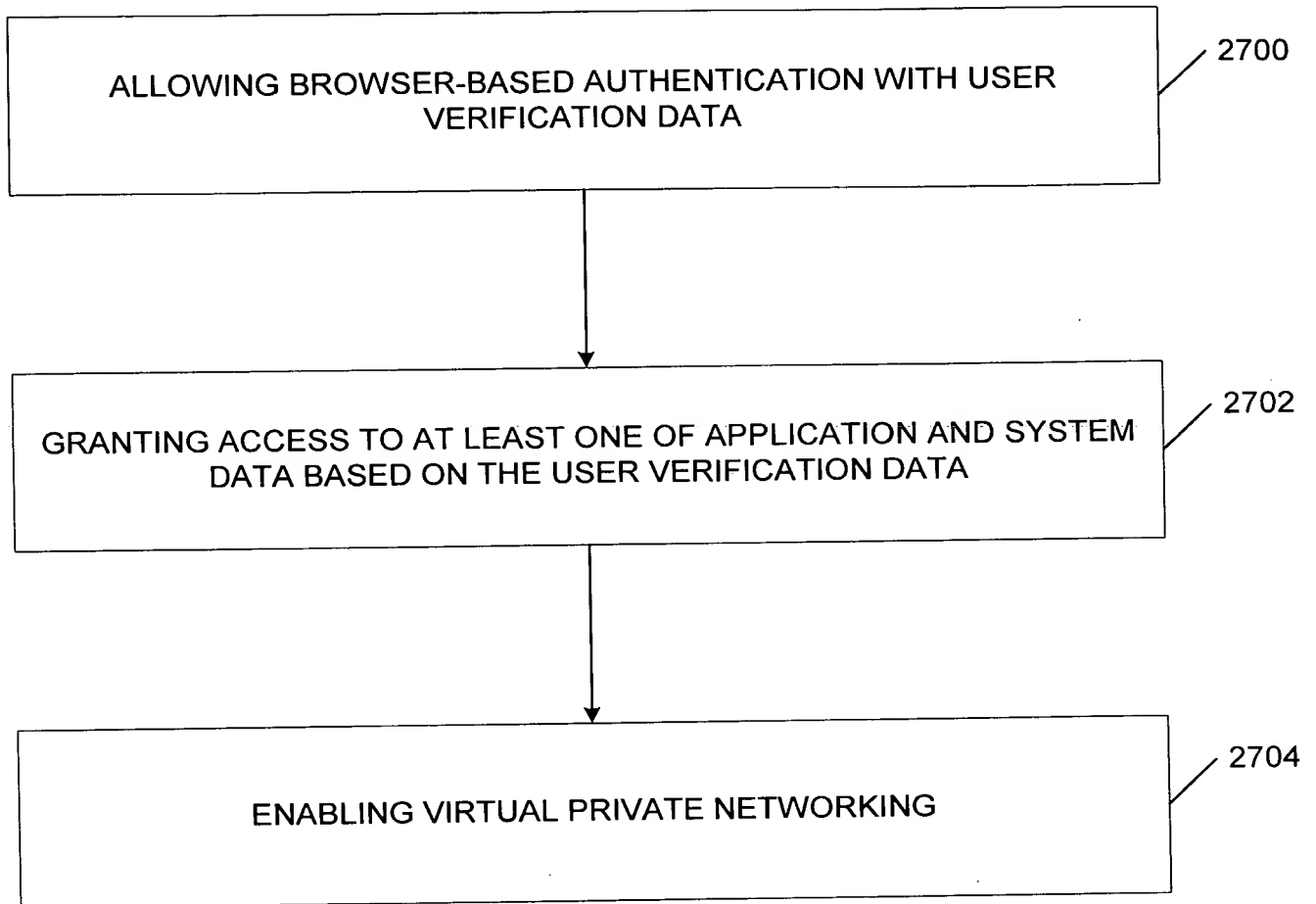


Figure 27

1414



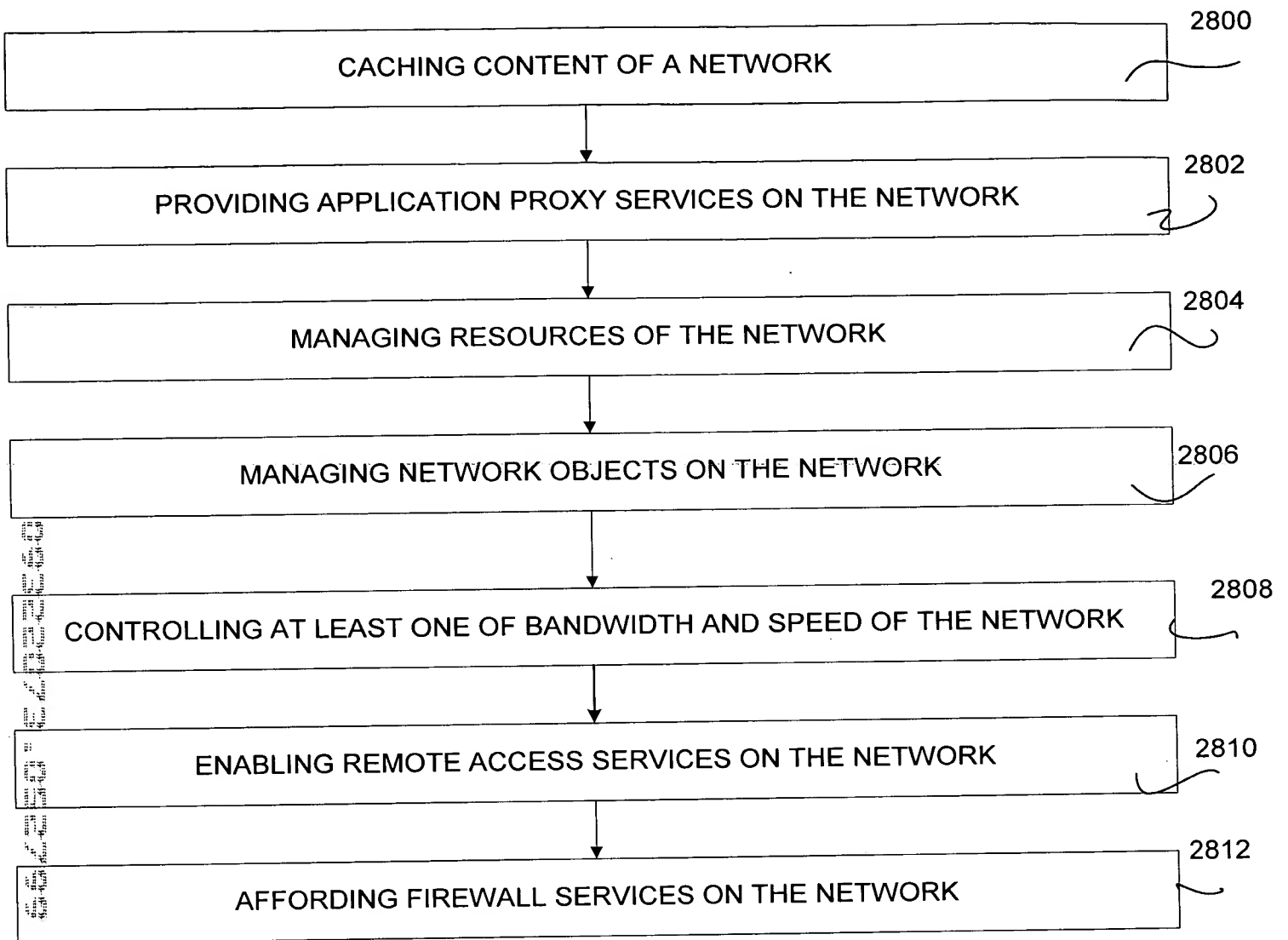


Figure 28

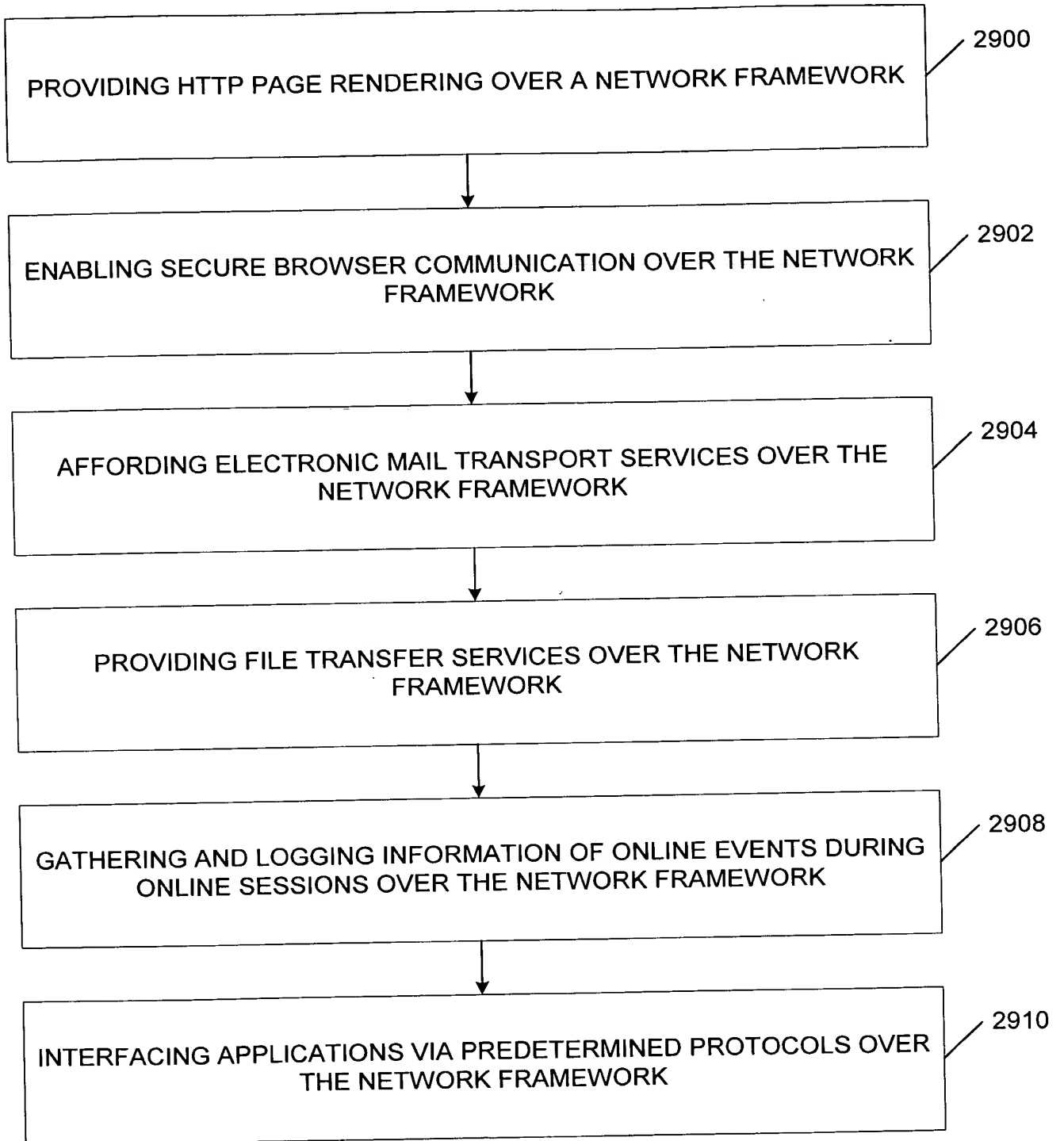


Figure 29

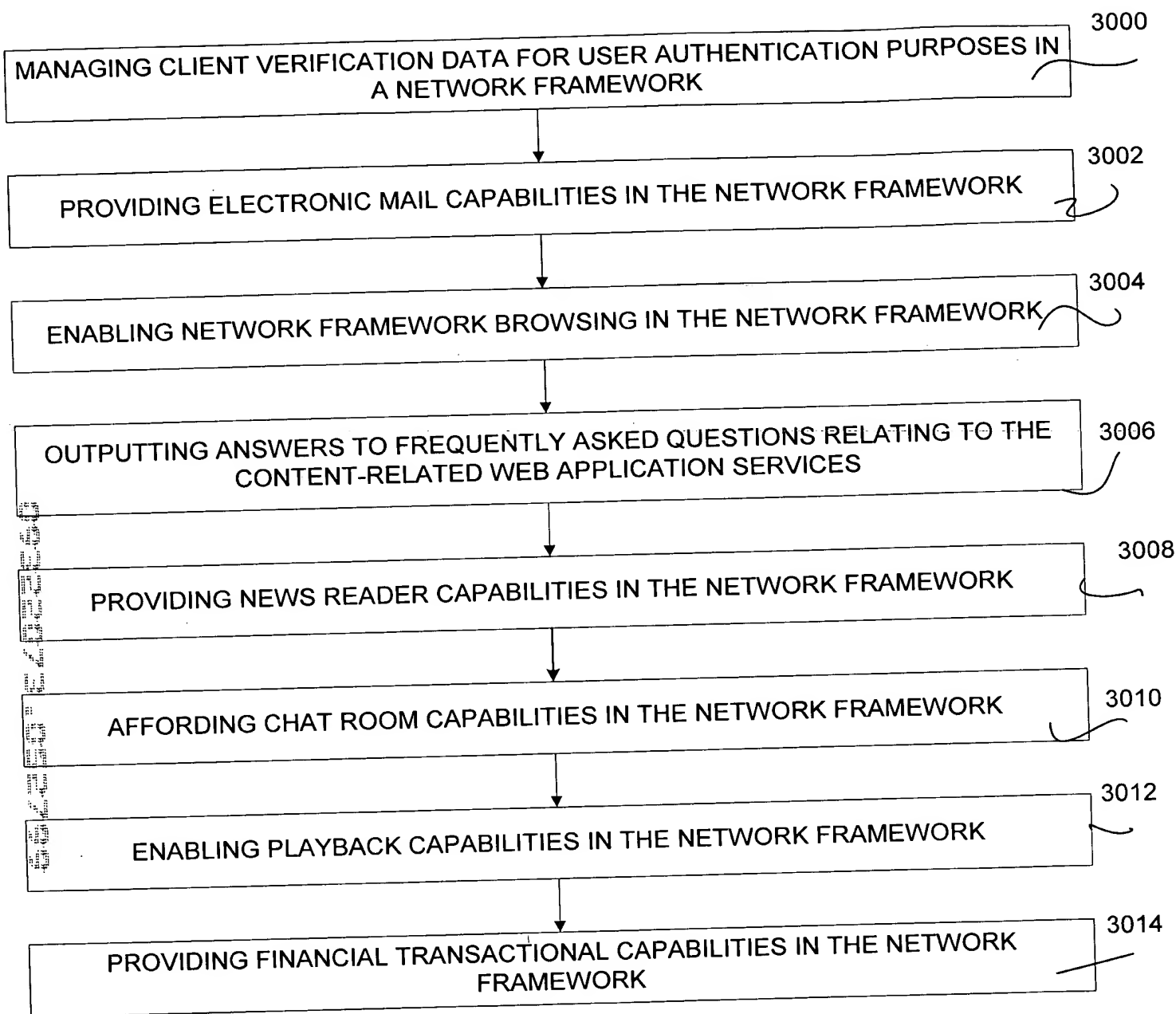
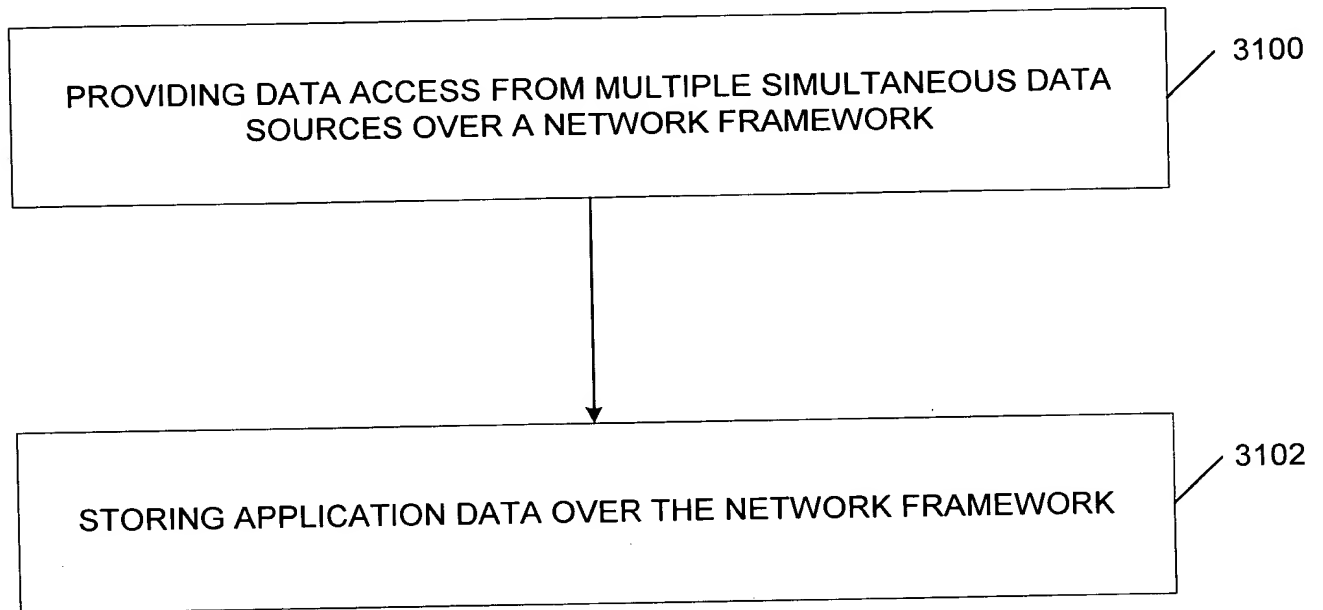
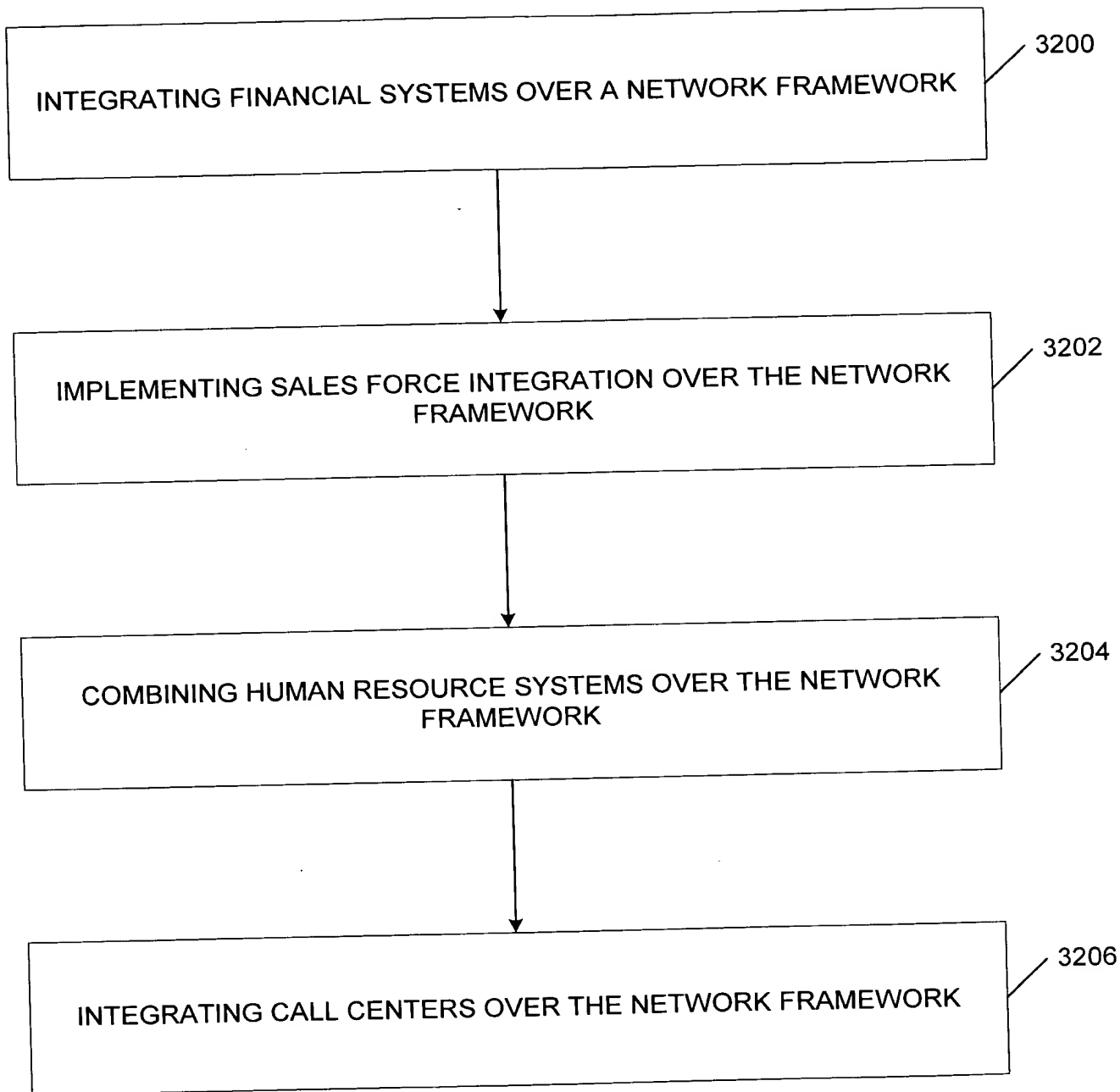


Figure 30



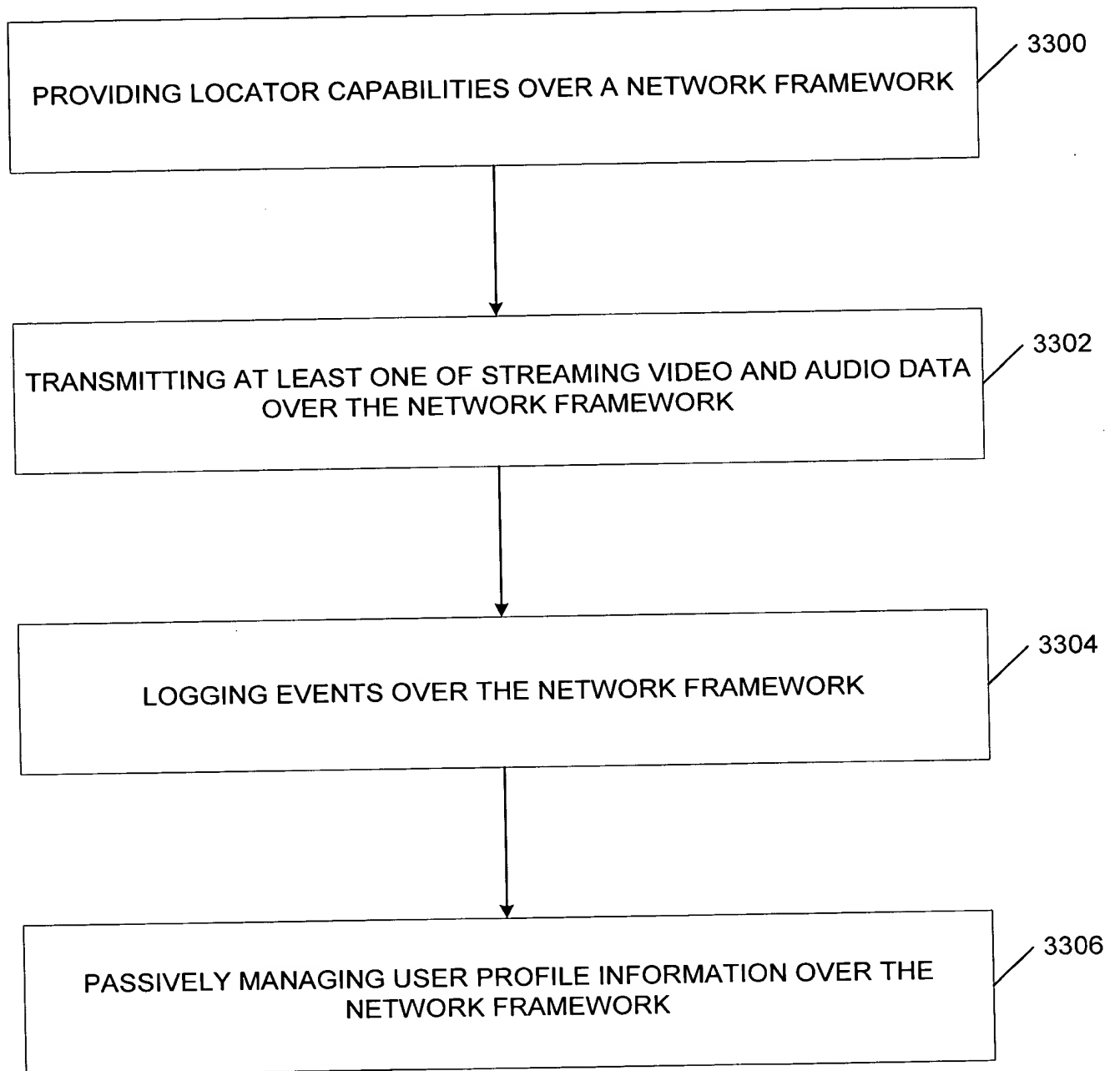
**Figure 31**

1424



1422

Figure 32



1426

Figure 33

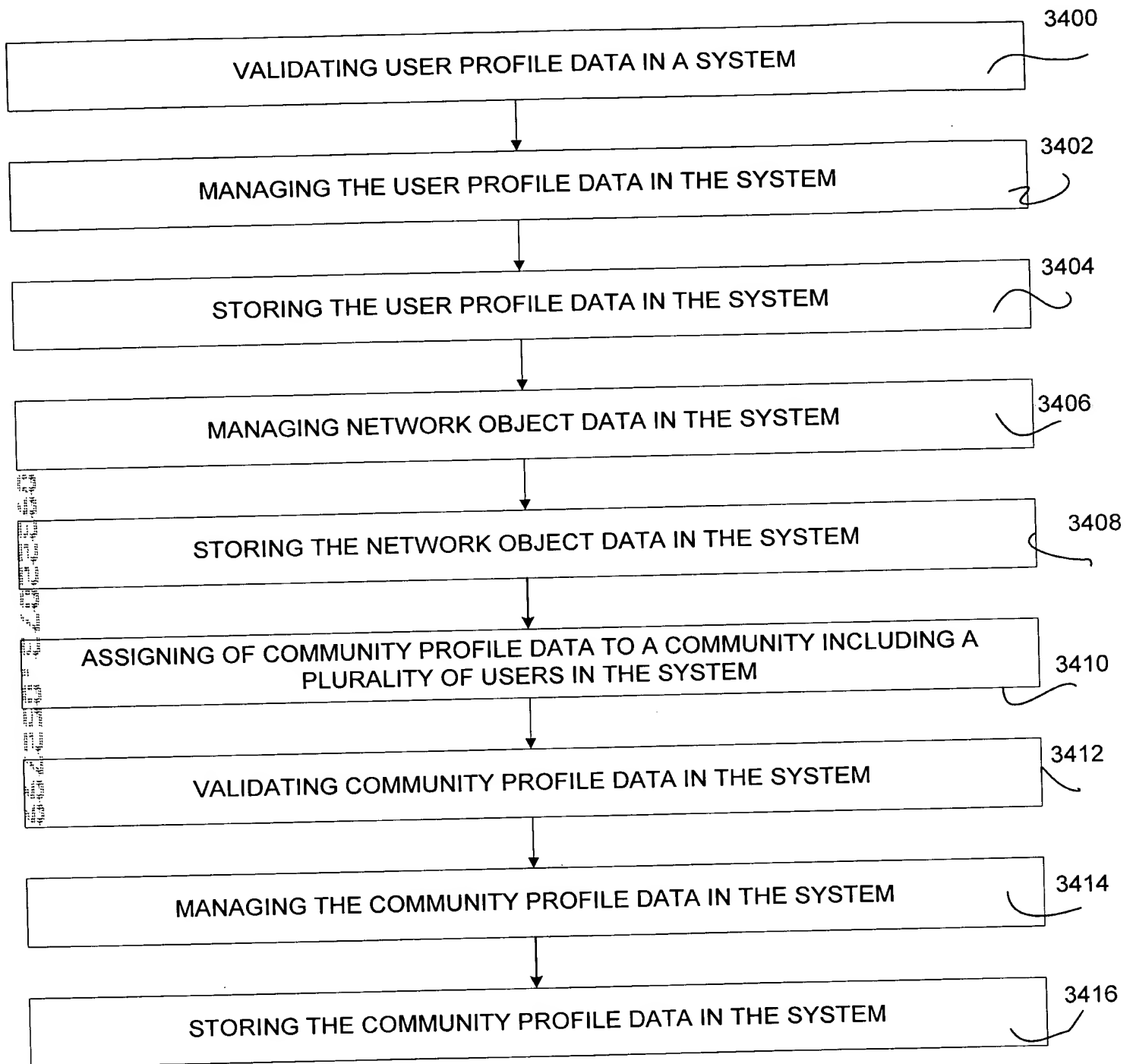
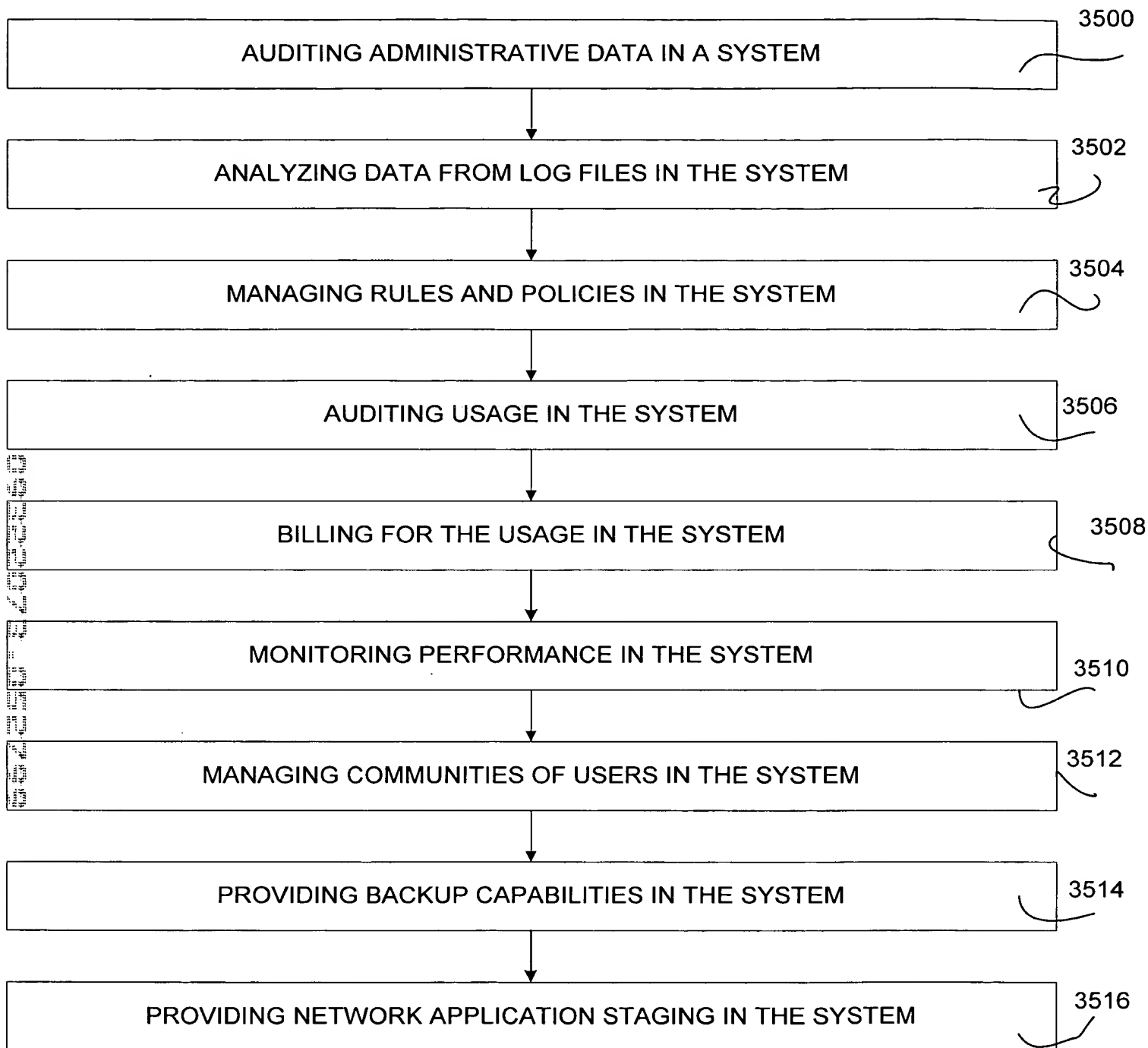


Figure 34



**Figure 35**



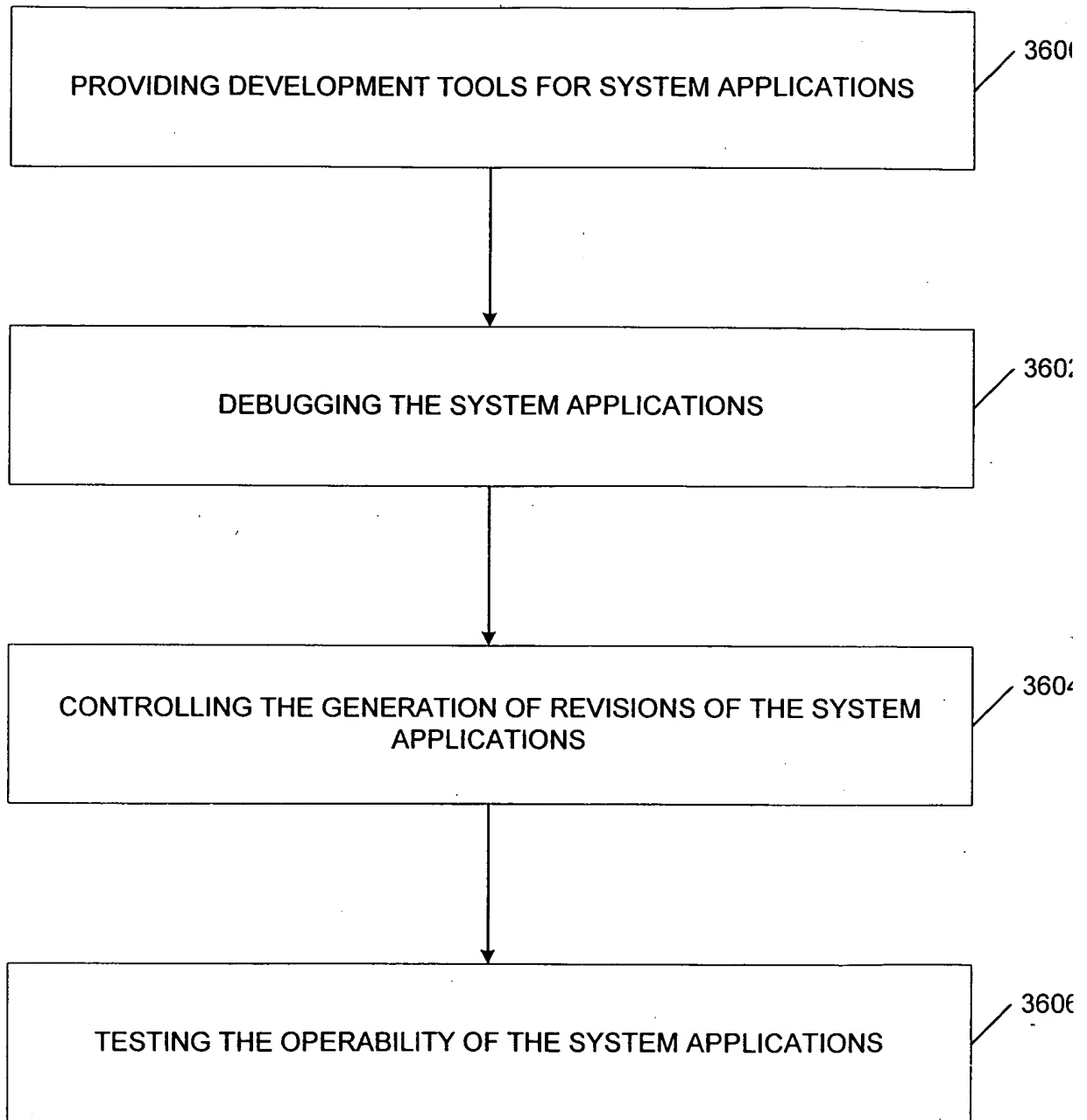


Figure 36